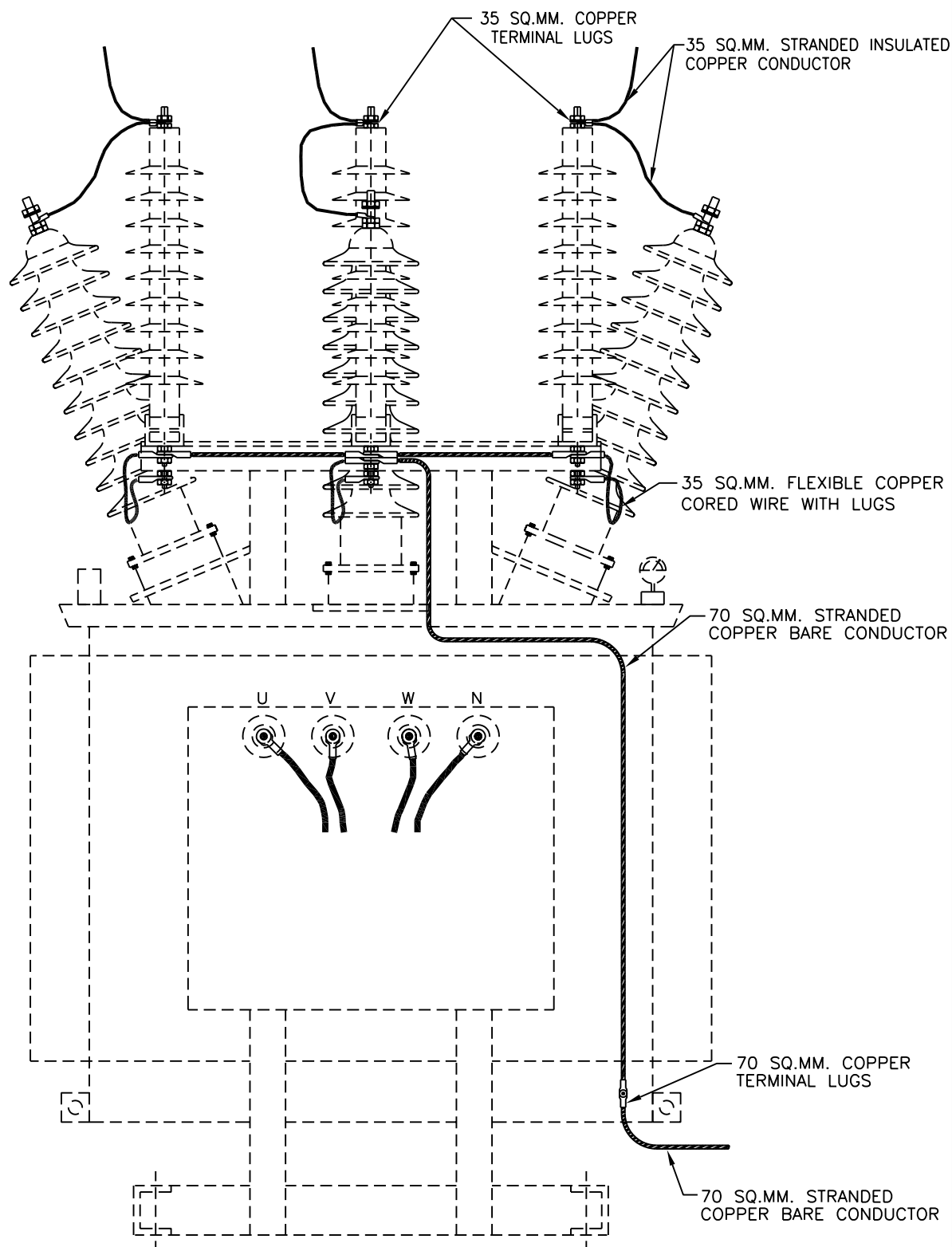


DRW.01-POLE MOUNTED TRANSFORMER DETAILED ASSEMBLY STRUCTURE

ALL DIMENSIONS ARE IN MILLIMETER



DRW.02-POLE MOUNTED TRANSFORMER EARTHING DETAILED DRAWING

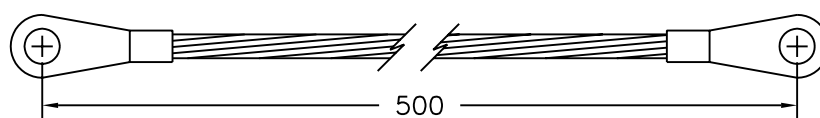
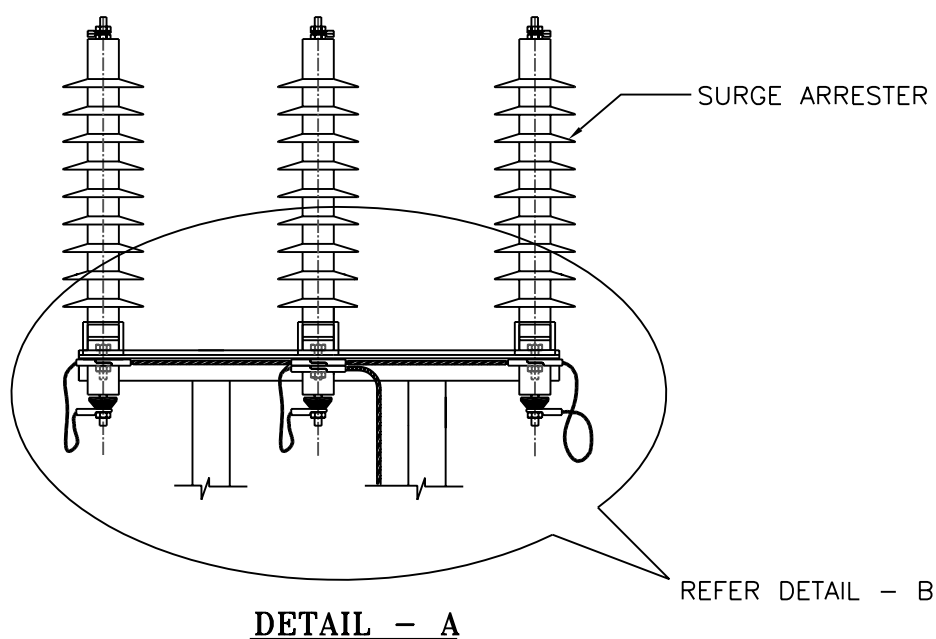
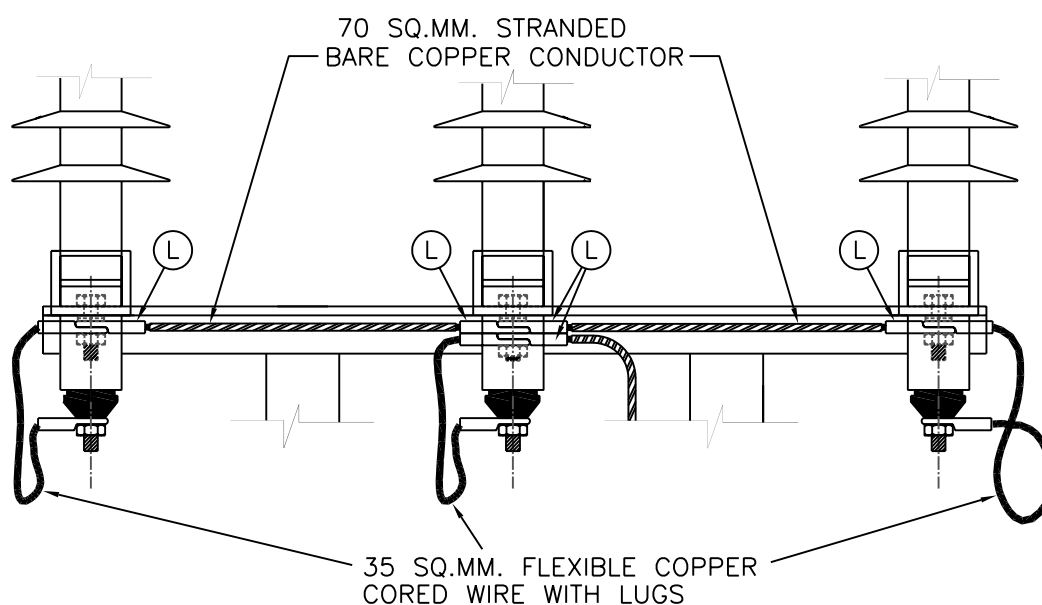
ALL DIMENSIONS ARE IN MILLIMETER



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

**35 SQ.MM. FLEXIBLE COPPER CORED WIRE WITH LUGS**

L - 5Nos. 70SQ.MM COPPER TERMINAL LUGS

**DRW.03-LIGHTING ARRESTER EARTHING DETAILED DRAWING**

ALL DIMENSIONS ARE IN MILLIMETER



**200/300kVA PMT ON 12M POLE  
H-FRAME TRANSFORMER STRUCTURE**

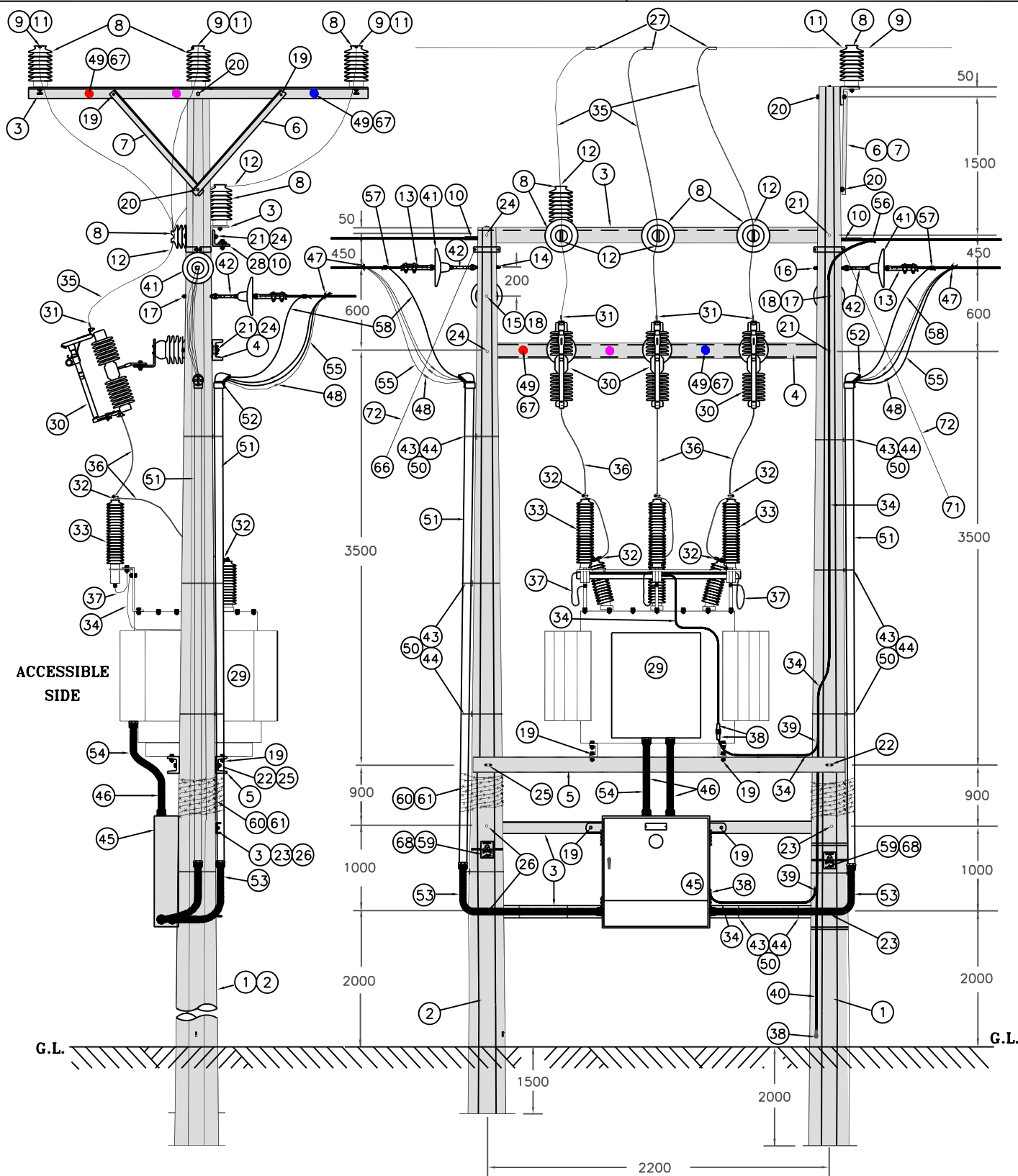




## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.04-200/300kVA TRANSFORMER PLATFORM-12M MV & 10M LV  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SDMS-02	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Bolt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	2	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm L.G.	20-SDMS-02	Fig. 6
29	1	Transformer, 200KVA.	51-SDMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
31	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
32	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	
33	3	Surge Arrester, 33kV	35-SDMS-01	
34	15M	70mm <sup>2</sup> Copper Bare Conductor		
35	15M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
37	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

**DRW.04A1/2-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET**

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
39	2	Crimp Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SDMS-01	Clause 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable.	20-SDMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable.	20-SDMS-02	
55	36M	Quadruplex Cable, Al. 120mm <sup>2</sup>	11-SDMS-02	
56	1	Bi-Metallic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
57	4	Bi-Metallic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
60	27M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
67	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
68	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
69	16	Terminal Lugs for Cable 4X300mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
70	12	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
71	1 Set	L.T One Stay Assembly On PMT- Structure/200	SDCS-01	Drw. 321
72	26M	Stay wire 7/3.25, 9.8mm Dia., HDG steel. UTS 65kN Min. (Optional)	SDCS-01	

DRW.04A2/2-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SDMS-02	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Bolt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	2	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
29	1	Transformer, 300KVA.	51-SDMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
31	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
32	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	
33	3	Surge Arrester, 33kV	35-SDMS-01	
34	15M	70mm <sup>2</sup> Copper Bare Conductor		
35	15M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
37	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

**DRW.04B1/2-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET**

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
39	2	Crimp Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethelene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethelene Rigid Pipe for Outgoing Cable.	20-SDMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable.	20-SDMS-02	
55	36M	Quadruplex Cable, Al., 120mm <sup>2</sup>	11-SDMS-02	
56	1	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
57	4	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
60	27M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
67	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
68	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
69	16	Terminal Lugs for Cable 4X300mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
70	12	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
71	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
72	26M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	

DRW.04B2/2-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

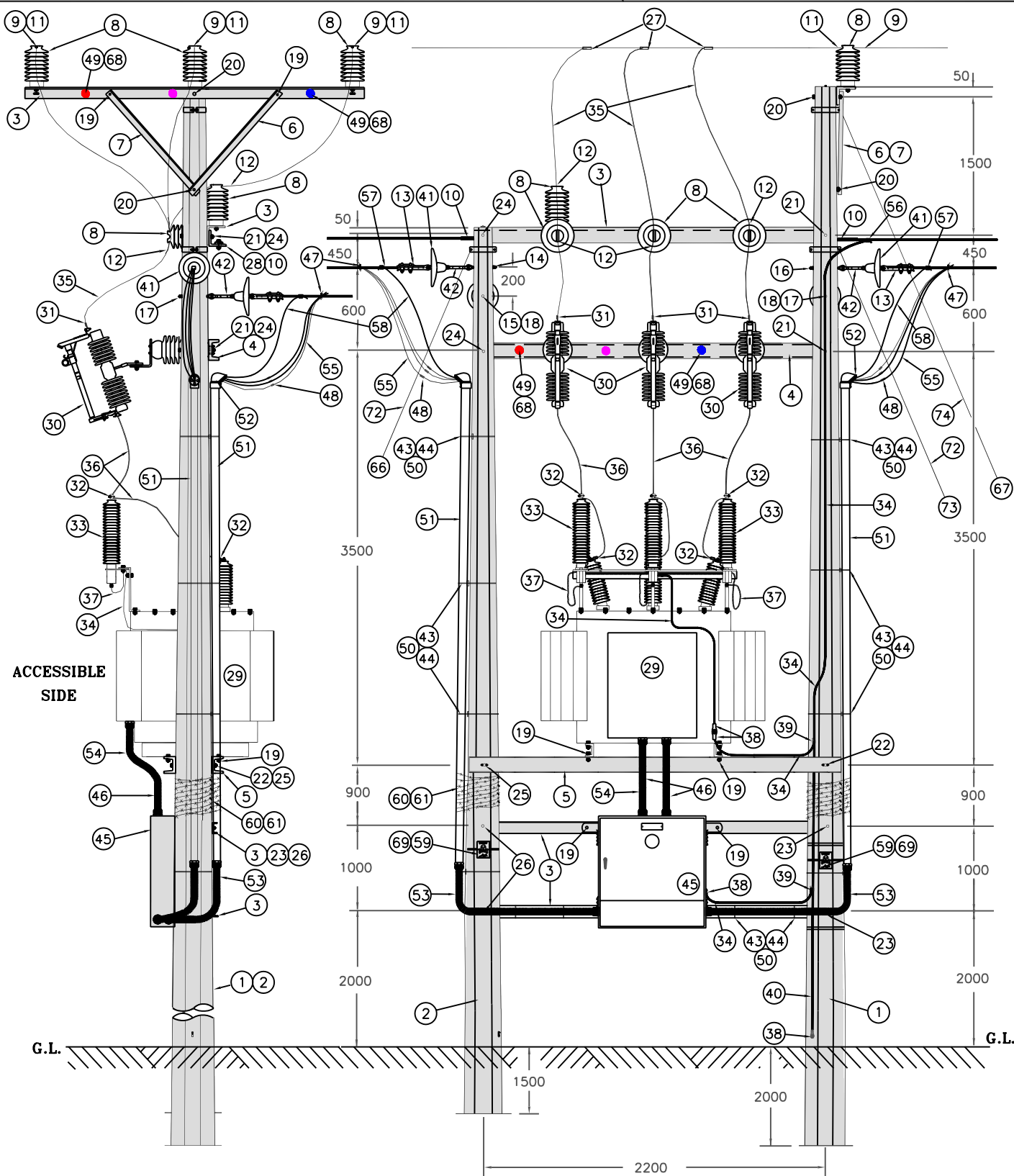
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## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.05-200/300kVA TRANSFORMER PLATFORM-12M MV & 10M LV  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER





## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SDMS-02	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Bolt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	2	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
29	1	Transformer, 200KVA.	51-SDMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
31	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
32	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	
33	3	Surge Arrester, 33kV	35-SDMS-01	
34	15M	70mm <sup>2</sup> Copper Bare Conductor		
35	15M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
37	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

**DRW.05A1/2-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
39	2	Crimpfit Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethelene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethelene Rigid Pipe for Outgoing Cable.	20-SDMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable.	20-SDMS-02	
55	36M	Quadruplex Cable, Al. 120mm <sup>2</sup>	11-SDMS-02	
56	1	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
57	4	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
60	27M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
67	1 Set	M.V-S.C One Stay Assembly	SDCS-01	Drw. 312
68	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
69	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
70	16	Terminal Lugs for Cable 4X300mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
71	12	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
72	26M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
73	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
74	15M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN (Min.)	SDCS-01	

**DRW.05A2/2-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

TRPF4





## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SDMS-02	Fig. 16
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Bolt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	2	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
29	1	Transformer, 300KVA.	51-SDMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
31	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
32	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	
33	3	Surge Arrester, 33kV	35-SDMS-01	
34	15M	70mm <sup>2</sup> Copper Bare Conductor		
35	15M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
37	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

**DRW.05B1/2-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
39	2	Crimp Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable	20-SDMS-02	
54	2	Flexible Pipe, 2 Mtr. 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable	20-SDMS-02	
55	36M	Quadruplex Cable, Al. 120mm <sup>2</sup>	11-SDMS-02	
56	1	Bi-Metallic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
57	4	Bi-Metallic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	11-SDMS-01	Fig. 49
60	27M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
67	1 Set	M.V-S.C One Stay Assembly	SDCS-01	Drw. 312
68	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
69	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
70	16	Terminal Lugs for Cable 4X300mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
71	12	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
72	26M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
73	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
74	15M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN (Min.)	SDCS-01	

**DRW.05B2/2-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

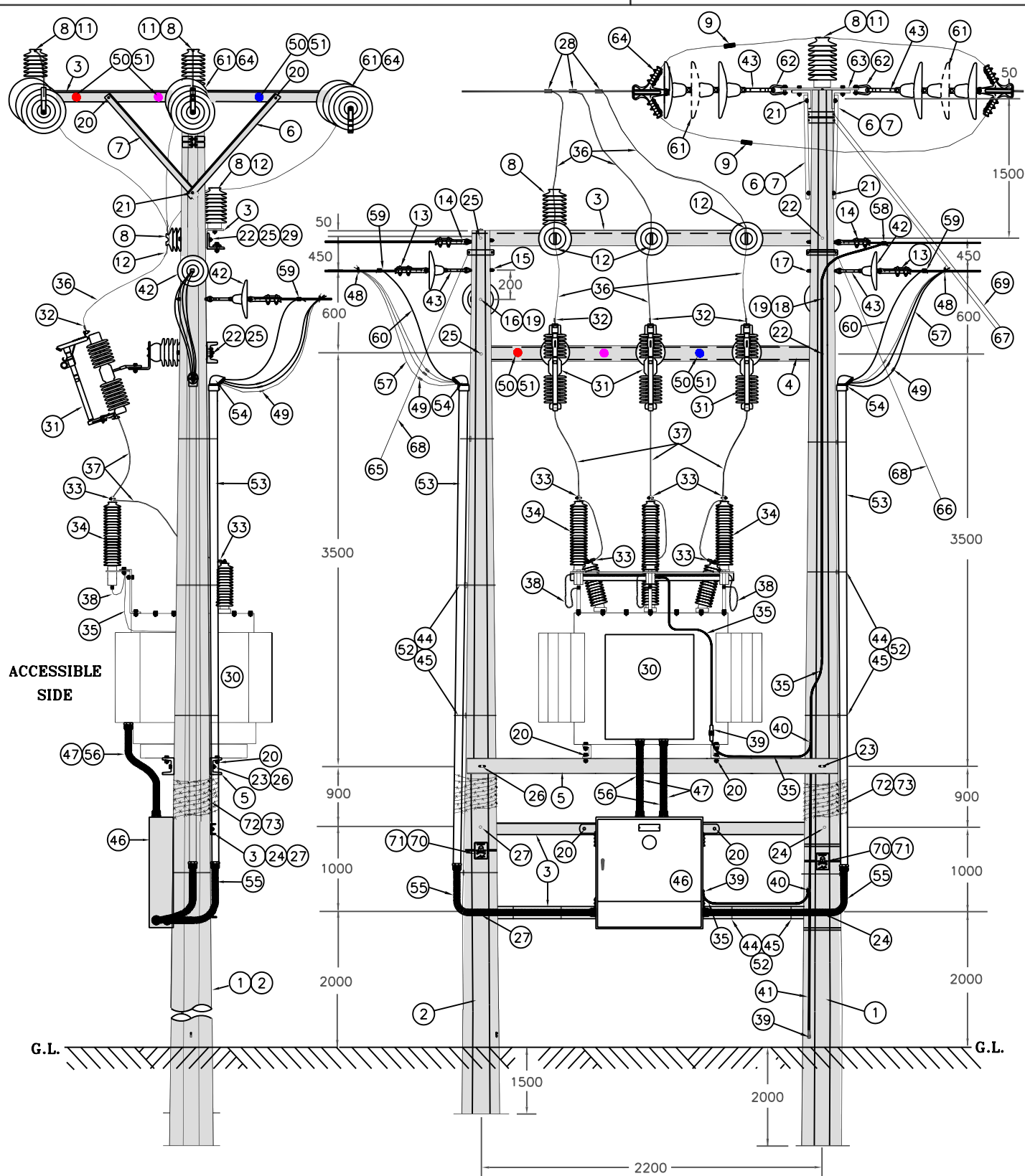
TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.06-200/300kVA TRANSFORMER PLATFORM-12M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

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## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	6	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3	Parallel Groove Compression Connector for 170.5mm <sup>2</sup> ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Compression Connector for 67.44mm <sup>2</sup> ACSR/AW (Quail-Quail)	20-SDMS-02	Fig. 39
11	2 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	2	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 30
15	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
19	2	Eye Nut, M16	20-SDMS-02	Fig. 16
20	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
21	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
28	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
29	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transformer, 200KVA.	51-SDMS-01	
31	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
32	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
33	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	
34	3	Surge Arrester, 33kV	35-SDMS-01	
35	15M	70mm <sup>2</sup> Copper Bare Conductor		
36	15M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
37	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	

**DRW.06A1/3-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
39	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
40	2	Crimp Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
41	1	Ground Wire Guard	20-SDMS-02	Fig. 47
42	4	Suspension Insulator (Single)	15-SDMS-01	Page.23
43	10	Clevis Eye Extension	20-SDMS-02	Fig. 21
44	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
46	1	P.M.T. Cabinet 800A.	31-SDMS-03	
47	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
48	4	Cable Tie	20-SDMS-02	Fig. 63
49	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
52	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
53	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
54	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable.	20-SDMS-02	
57	36M	Quadruplex Cable, 120mm <sup>2</sup>	11-SDMS-02	
58	1	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
59	4	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
60	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn	11-SDMS-01	
61	6 Set	Suspension Insulator	15-SDMS-01	Page. 23
62	6	Anchor Shackle	20-SDMS-02	Fig. 20
63	3	Double Arming Plate, 100x12x700mm Lg.	20-SDMS-02	Fig. 07
64	6	Strain Clamp, 3U-Bolts type for Merlin	20-SDMS-02	Fig. 29
65	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
66	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 310
67	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 313
68	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
69	29M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
70	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
71	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
72	27M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
73	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13

**DRW.06A2/3-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**

TRPF4

DRW.06A3/3-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	6	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3	Parallel Groove Compression Connector for 170.5mm <sup>2</sup> ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Compression Connector for 67.44mm <sup>2</sup> ACSR/AW (Quail-Quail)	20-SDMS-02	Fig. 39
11	2 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	2	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
19	2	Eye Nut, M16	20-SDMS-02	Fig. 16
20	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
21	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
28	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
29	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transformer, 300KVA	51-SDMS-01	
31	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
32	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
33	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
34	3	Surge Arrester, 33kV	35-SDMS-01	
35	15M	70mm <sup>2</sup> Copper Bare Conductor		
36	15M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
37	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	

**DRW.06B1/3-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**

TRPF4





## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
39	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
40	2	Crimp Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
41	1	Ground Wire Guard	20-SDMS-02	Fig. 47
42	4	Suspension Insulator (Single)	15-SDMS-01	Page.23
43	10	Clevis Eye Extension	20-SDMS-02	Fig. 21
44	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
46	1	P.M.T. Cabinet 800A.	31-SDMS-03	
47	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
48	4	Cable Tie	20-SDMS-02	Fig. 63
49	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
52	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
53	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
54	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable.	20-SDMS-02	
57	36M	Quadruplex Cable, 120mm <sup>2</sup>	11-SDMS-02	
58	1	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
59	4	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
60	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn	11-SDMS-01	
61	6 Set	Suspension Insulator	15-SDMS-01	Page. 23
62	6	Anchor Shackle	20-SDMS-02	Fig. 20
63	3	Double Arming Plate, 100x12x700mm Lg.	20-SDMS-02	Fig. 07
64	6	Strain Clamp, 3U-Bolts type for Merlin	20-SDMS-02	Fig. 29
65	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
66	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 310
67	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 313
68	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
69	29M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
70	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
71	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
72	27M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
73	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13

**DRW.06B2/3-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**

TRPF4



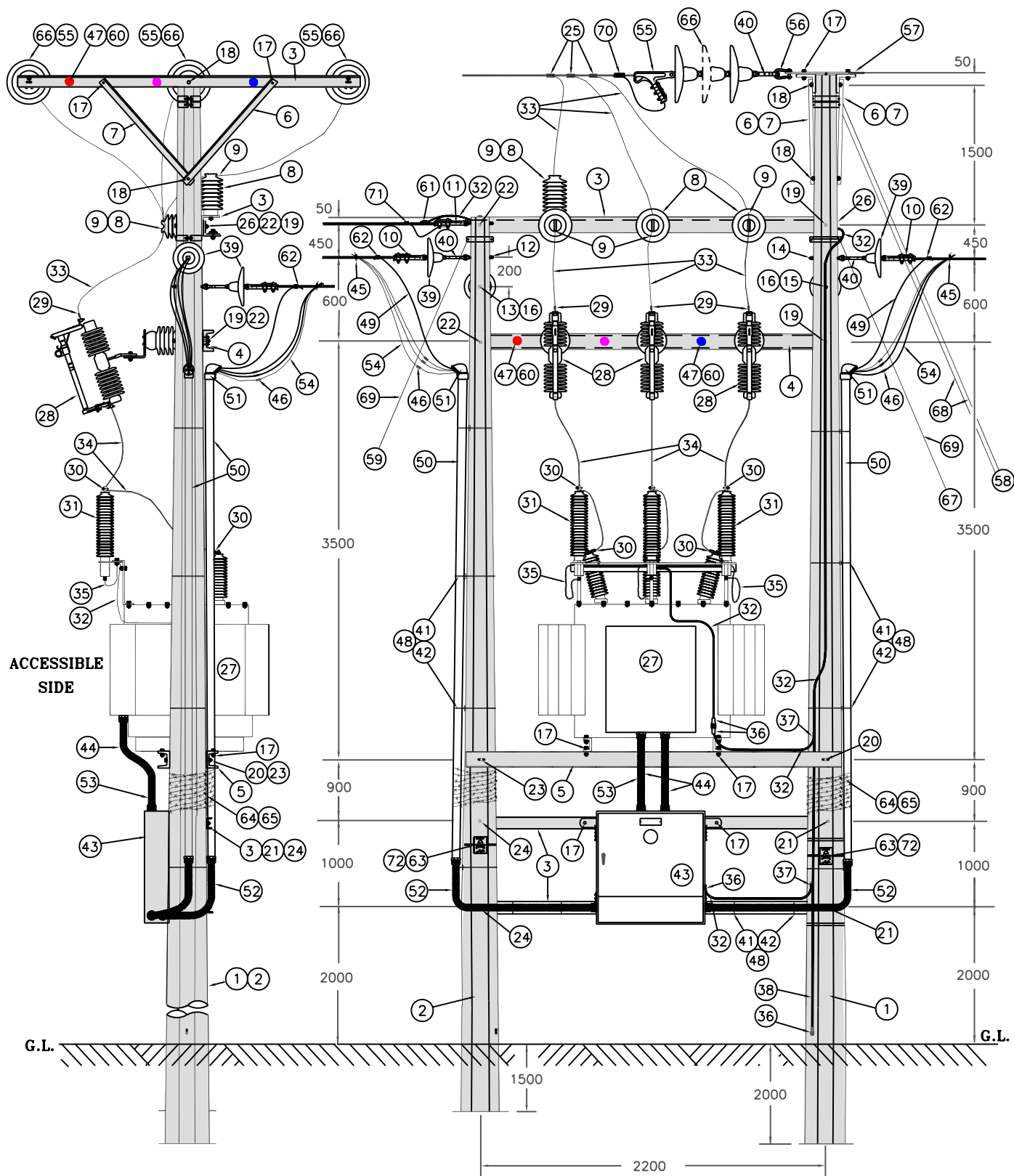
DRW.06B3/3-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.07-200/300kVA TRANSFORMER PLATFORM-12M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
10	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
11	1	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 30
12	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
13	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
14	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	2	Eye Nut M16	20-SDMS-02	Fig. 18
17	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
18	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
19	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
20	1	Machine Bolt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
26	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
27	1	Transformer, 200KVA.	51-SDMS-01	
28	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
29	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
30	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
31	3	Surge Arrester, 33kV	35-SDMS-01	
32	17M	70mm <sup>2</sup> Copper Bare Conductor		
33	15M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
34	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
35	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
36	13	Terminal Lug for 70mm <sup>2</sup> Cu.	12-SDMS-01	
37	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45

**DRW.07A1/3-200kVA TRANSFORMER PLATFORM-12M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	1	Ground Wire Guard	20-SDMS-02	Fig. 47
39	4	Suspension Insulator (Single)	15-SDMS-01	
40	7	Clevis Eye Extension	20-SDMS-02	Fig. 21
41	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
42	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
43	1	P.M.T. Cabinet 800A	31-SDMS-03	
44	6M	Cable - 4x300mm <sup>2</sup> Al. Main Incoming	11-SDMS-01	
45	4	Cable Tie	20-SDMS-02	Fig. 63
46	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
47	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
48	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
49	36M	Cu. Conductor Insulated, stranded 70mm <sup>2</sup> Soft Drawn	11-SDMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D for 4X300mm <sup>2</sup> Incoming Cable	20-SDMS-02	
54	36M	Quadruplex Cable, 120mm <sup>2</sup>	11-SDMS-02	
55	3	Strain Clamp, 3 U-Bolts for Merlin	20-SDMS-02	Fig. 29
56	3	Anchor Shackle	20-SDMS-02	Fig. 20
57	3	Double Arming Plate	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Two stay Assembly	SDCS-01	Drw. 313
59	1 Set	L.T One stay Assembly (Optional)	SDCS-01	Drw. 310
60	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
61	1	Bi-Mettalic Connector, 2 Bolt Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
62	4	Bi-Mettalic Connector, 2 Bolt Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
63	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
64	27M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
65	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulator	15-SDMS-01	
67	1 Set	L.T One stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
68	29M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
69	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
70	3	Parallel Groove Clamp for 3 U-Bolts type for Merlin ACSR	20-SDMS-02	Fig. 39
71	1	Parallel Groove Clamp for two Bolts type for Quail ACSR	20-SDMS-02	Fig. 39
72	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50

**DRW.07A2/3-200kVA TRANSFORMER PLATFORM-12M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**

DRW.07A3/3-200kVA TRANSFORMER PLATFORM-12M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
10	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
11	1	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 30
12	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 16
13	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 16
14	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 16
16	2	Eye Nut M16	20-SDMS-02	Fig. 18
17	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
18	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
19	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
20	1	Machine Bolt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
26	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
27	1	Transformer, 300KVA.	51-SDMS-01	
28	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
29	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
30	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
31	3	Surge Arrester, 33kV	35-SDMS-01	
32	17M	70mm <sup>2</sup> Copper Bare Conductor		
33	15M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
34	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
35	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
36	13	Terminal Lug for 70mm <sup>2</sup> Cu.	12-SDMS-01	
37	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45

**DRW.07B1/3-300kVA TRANSFORMER PLATFORM-12M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	1	Ground Wire Guard	20-SDMS-02	Fig. 47
39	4	Suspension Insulator (Single)	15-SDMS-01	
40	7	Clevis Eye Extension	20-SDMS-02	Fig. 21
41	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
42	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
43	1	P.M.T. Cabinet 800A	31-SDMS-03	
44	6M	Cable - 4x300mm <sup>2</sup> Al. Main Incoming	11-SDMS-01	
45	4	Cable Tie	20-SDMS-02	Fig. 63
46	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
47	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
48	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
49	36M	Cu. Conductor Insulated, stranded 70mm <sup>2</sup> Soft Drawn	11-SDMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D for 4X300mm <sup>2</sup> Incoming Cable	20-SDMS-02	
54	36M	Quadruplex Cable, 120mm <sup>2</sup>	11-SDMS-02	
55	3	Strain Clamp, 3 U-Bolts for Merlin	20-SDMS-02	Fig. 29
56	3	Anchor Shackle	20-SDMS-02	Fig. 20
57	3	Double Arming Plate	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Two stay Assembly	SDCS-01	Drw. 313
59	1 Set	L.T One stay Assembly (Optional)	SDCS-01	Drw. 310
60	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
61	1	Bi-Mettalic Connector, 2 Bolt Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
62	4	Bi-Mettalic Connector, 2 Bolt Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
63	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
64	27M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
65	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulator	15-SDMS-01	
67	1 Set	L.T One stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
68	29M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
69	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
70	3	Parallel Groove Clamp for 3 U-Bolts type for Merlin ACSR	20-SDMS-02	Fig. 39
71	1	Parallel Groove Clamp for two Bolts type for Quail ACSR	20-SDMS-02	Fig. 39
72	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50

**DRW.07B2/3-300kVA TRANSFORMER PLATFORM-12M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**

DRW.07B3/3-300kVA TRANSFORMER PLATFORM-12M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET





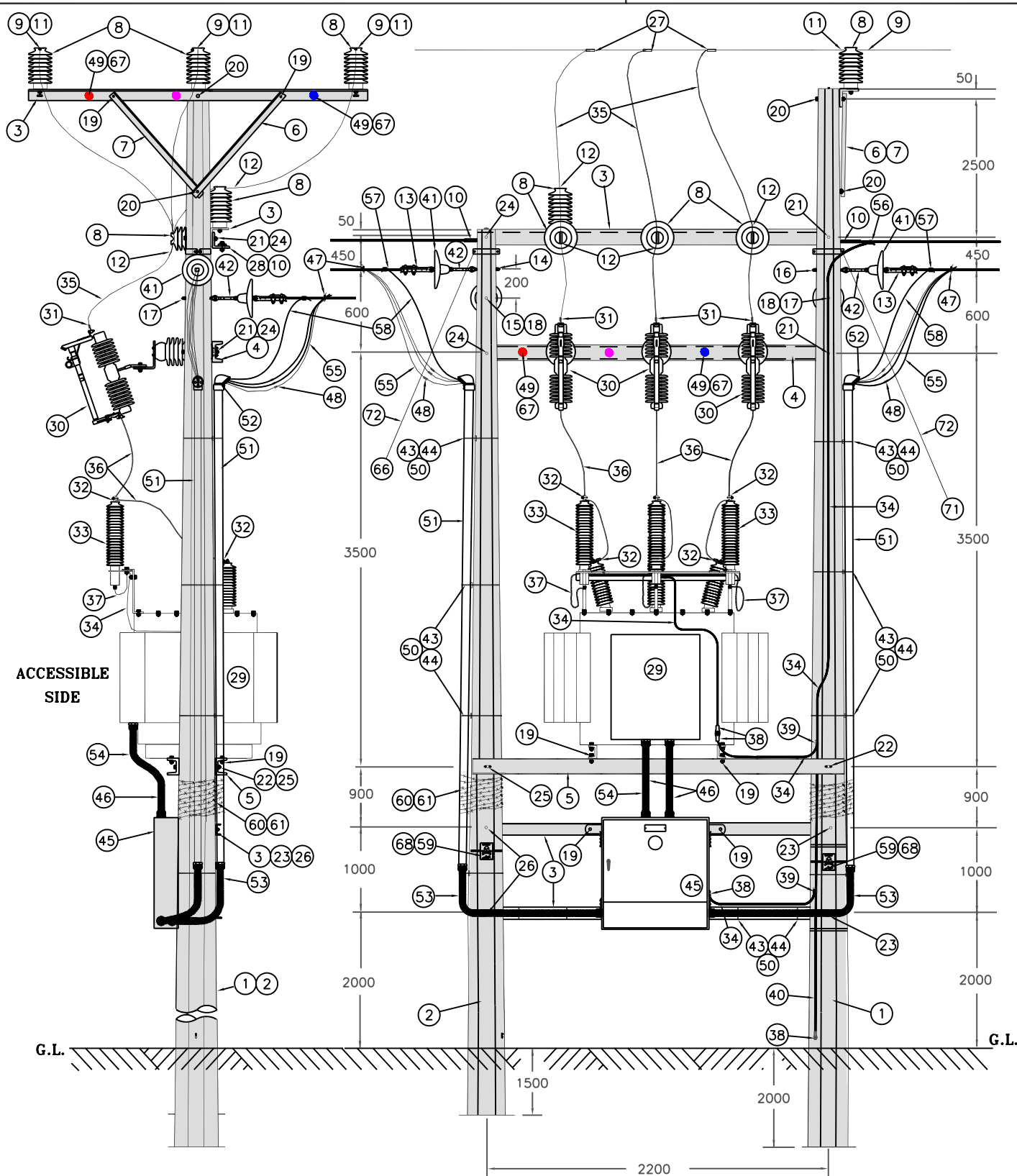
**200/300kVA PMT ON 13M POLE  
H-FRAME TRANSFORMER STRUCTURE**



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.08-200/300kVA TRANSFORMER PLATFORM-13M MV & 10M LV  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SDMS-02	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	2	Machine Bolt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm L.G.	20-SDMS-02	Fig. 6
29	1	Transformer, 200KVA.	51-SDMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
31	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
32	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	
33	3	Surge Arrester, 33kV	35-SDMS-01	
34	15M	70mm <sup>2</sup> Copper Bare Conductor		
35	18M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
37	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

DRW.08A1/2-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
39	2	Crimp Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SDMS-01	Clause 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable.	20-SDMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable.	20-SDMS-02	
55	36M	Quadruplex Cable, Al. 120mm <sup>2</sup>	11-SDMS-02	
56	1	Bi-Metallic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
57	4	Bi-Metallic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
60	28M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
67	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
68	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
69	16	Terminal Lugs for Cable 4X300mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
70	12	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
71	1 Set	L.T One Stay Assembly On PMT- Structure/200	SDCS-01	Drw. 321
72	26M	Stay wire 7/3.25, 9.8mm Dia., HDG steel. UTS 65kN Min. (Optional)	SDCS-01	

DRW.08A2/2-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SDMS-02	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	2	Machine Bolt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm L.G.	20-SDMS-02	Fig. 6
29	1	Transformer, 300KVA.	51-SDMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
31	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
32	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	
33	3	Surge Arrester, 33kV	35-SDMS-01	
34	15M	70mm <sup>2</sup> Copper Bare Conductor		
35	18M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
37	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

DRW.08B1/2-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
39	2	Crimpfit Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethelene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethelene Rigid Pipe for Outgoing Cable.	20-SDMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable.	20-SDMS-02	
55	36M	Quadruplex Cable, Al., 120mm <sup>2</sup>	11-SDMS-02	
56	1	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
57	4	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
60	28M	Anti-Climbing Dvice, Barbed Wire	20-SDMS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
67	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
68	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
69	16	Terminal Lugs for Cable 4X300mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
70	12	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
71	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
72	26M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	

DRW.08B2/2-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

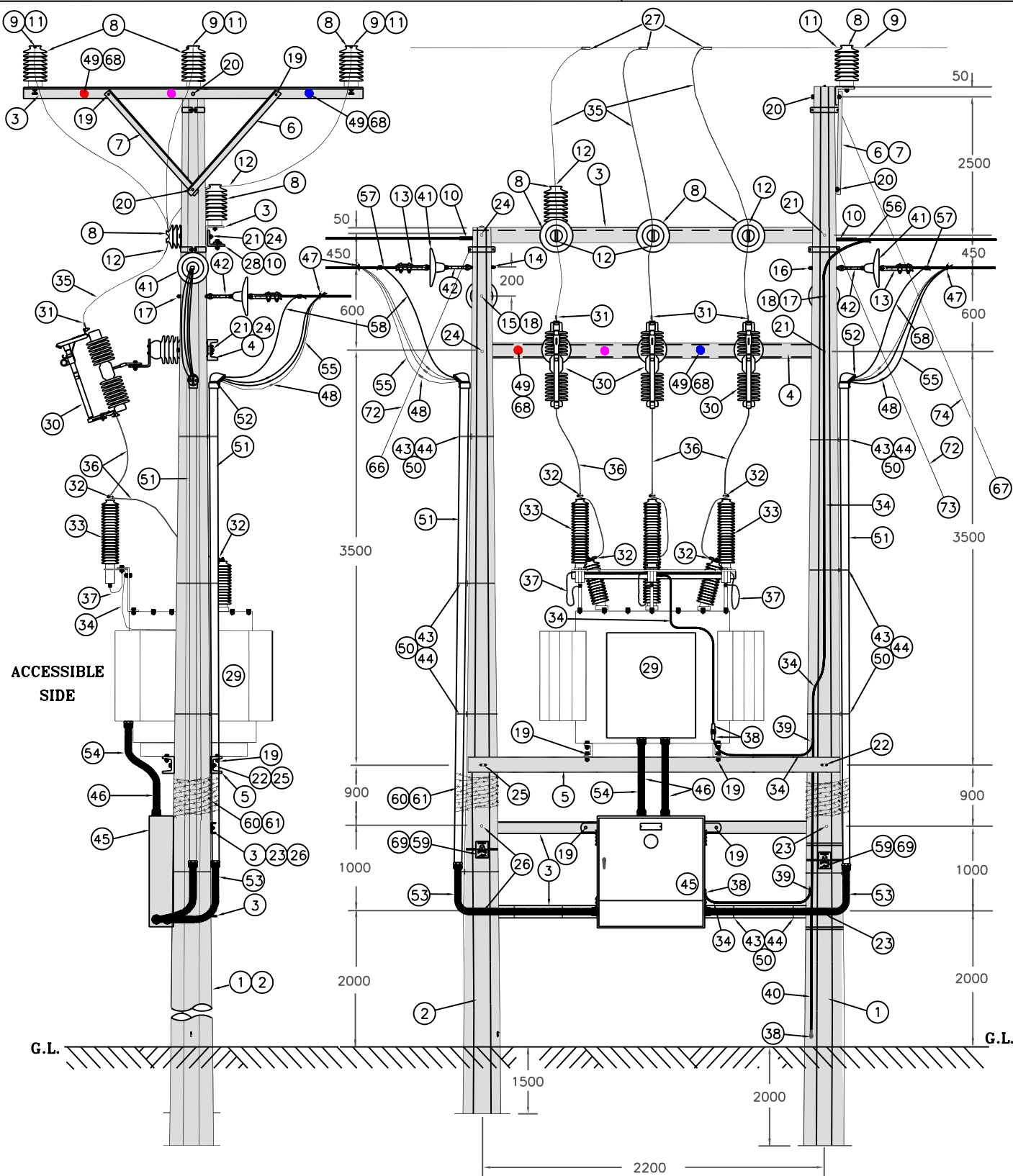
TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.09-200/300kVA TRANSFORMER PLATFORM-13M MV & 10M LV  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

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## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flat Washer, 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SDMS-02	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	2	Machine Bolt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
29	1	Transformer, 200KVA.	51-SDMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
31	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
32	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	
33	3	Surge Arrester, 33kV	35-SDMS-01	
34	15M	70mm <sup>2</sup> Copper Bare Conductor		
35	18M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
37	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

**DRW.09A1/2-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

TRPF4





## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
39	2	Crimp Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SDMS-01	Clause 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable.	20-SDMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable.	20-SDMS-02	
55	36M	Quadruplex Cable, Al. 120mm <sup>2</sup>	11-SDMS-02	
56	1	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
57	4	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
60	28M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
67	1 Set	M.V-S.C One Stay Assembly	SDCS-01	Drw. 312
68	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
69	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
70	16	Terminal Lugs for Cable 4X300mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
71	12	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
72	26M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
73	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
74	16M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN (Min.)	SDCS-01	

**DRW.09A2/2-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SDMS-02	Fig. 16
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	2	Machine Bolt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
29	1	Transformer, 300KVA.	51-SDMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
31	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
32	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	
33	3	Surge Arrester, 33kV	35-SDMS-01	
34	15M	70mm <sup>2</sup> Copper Bare Conductor		
35	18M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
37	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

**DRW.09B1/2-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
39	2	Crimp Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable	20-SDMS-02	
54	2	Flexible Pipe, 2 Mtr. 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable	20-SDMS-02	
55	36M	Quadruplex Cable, Al. 120mm <sup>2</sup>	11-SDMS-02	
56	1	Bi-Metallic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
57	4	Bi-Metallic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	11-SDMS-01	Fig. 49
60	28M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
67	1 Set	M.V-S.C One Stay Assembly	SDCS-01	Drw. 312
68	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
69	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
70	16	Terminal Lugs for Cable 4X300mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
71	12	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
72	26M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
73	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
74	16M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN (Min.)	SDCS-01	

**DRW.09B2/2-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

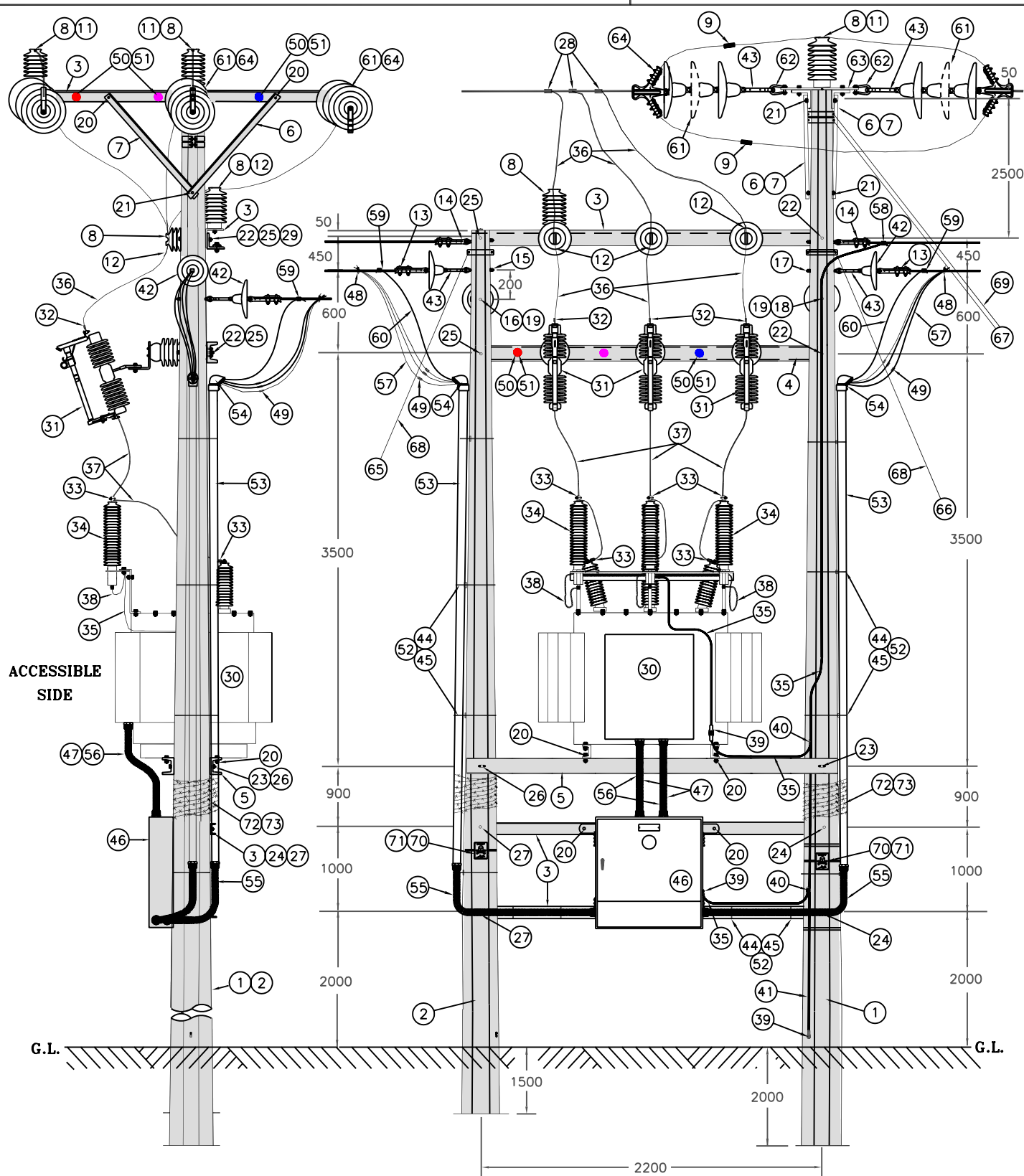
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DATE: DECEMBER 2005G



DRW.10-200/300kVA TRANSFORMER PLATFORM-13M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	6	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3	Parallel Groove Compression Connector for 170.5mm <sup>2</sup> ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Compression Connector for 67.44mm <sup>2</sup> ACSR/AW (Quail-Quail)	20-SDMS-02	Fig. 39
11	2 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	2	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 30
15	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
19	2	Eye Nut, M16	20-SDMS-02	Fig. 16
20	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
21	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
28	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
29	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transformer, 200KVA.	51-SDMS-01	
31	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
32	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
33	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	
34	3	Surge Arrester, 33kV	35-SDMS-01	
35	15M	70mm <sup>2</sup> Copper Bare Conductor		
36	18M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
37	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	

**DRW.10A1/3-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
39	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
40	2	Crimp Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
41	1	Ground Wire Guard	20-SDMS-02	Fig. 47
42	4	Suspension Insulator (Single)	15-SDMS-01	Page.23
43	10	Clevis Eye Extension	20-SDMS-02	Fig. 21
44	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
46	1	P.M.T. Cabinet 800A.	31-SDMS-03	
47	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
48	4	Cable Tie	20-SDMS-02	Fig. 63
49	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
52	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
53	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
54	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable.	20-SDMS-02	
57	36M	Quadruplex Cable, 120mm <sup>2</sup>	11-SDMS-02	
58	1	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
59	4	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
60	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn	11-SDMS-01	
61	6 Set	Suspension Insulator	15-SDMS-01	Page. 23
62	6	Anchor Shackle	20-SDMS-02	Fig. 20
63	3	Double Arming Plate, 100x12x700mm Lg.	20-SDMS-02	Fig. 07
64	6	Strain Clamp, 3U-Bolts type for Merlin	20-SDMS-02	Fig. 29
65	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
66	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 310
67	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 313
68	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
69	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
70	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
71	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
72	28M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
73	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13

**DRW.10A2/3-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**

TRPF4

DRW.10A3/3-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET





## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	6	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3	Parallel Groove Compression Connector for 170.5mm <sup>2</sup> ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Compression Connector for 67.44mm <sup>2</sup> ACSR/AW (Quail-Quail)	20-SDMS-02	Fig. 39
11	2 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	2	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
19	2	Eye Nut, M16	20-SDMS-02	Fig. 16
20	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
21	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
28	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
29	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transformer, 300KVA	51-SDMS-01	
31	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
32	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
33	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
34	3	Surge Arrester, 33kV	35-SDMS-01	
35	15M	70mm <sup>2</sup> Copper Bare Conductor		
36	18M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
37	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	

**DRW.10B1/3-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
39	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
40	2	Crimp Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
41	1	Ground Wire Guard	20-SDMS-02	Fig. 47
42	4	Suspension Insulator (Single)	15-SDMS-01	Page.23
43	10	Clevis Eye Extension	20-SDMS-02	Fig. 21
44	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
46	1	P.M.T. Cabinet 800A.	31-SDMS-03	
47	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
48	4	Cable Tie	20-SDMS-02	Fig. 63
49	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
52	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
53	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
54	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable.	20-SDMS-02	
57	36M	Quadruplex Cable, 120mm <sup>2</sup>	11-SDMS-02	
58	1	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
59	4	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
60	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn	11-SDMS-01	
61	6 Set	Suspension Insulator	15-SDMS-01	Page. 23
62	6	Anchor Shackle	20-SDMS-02	Fig. 20
63	3	Double Arming Plate, 100x12x700mm Lg.	20-SDMS-02	Fig. 07
64	6	Strain Clamp, 3U-Bolts type for Merlin	20-SDMS-02	Fig. 29
65	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
66	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 310
67	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 313
68	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
69	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
70	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
71	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
72	28M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
73	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13

**DRW.10B2/3-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**

TRPF4

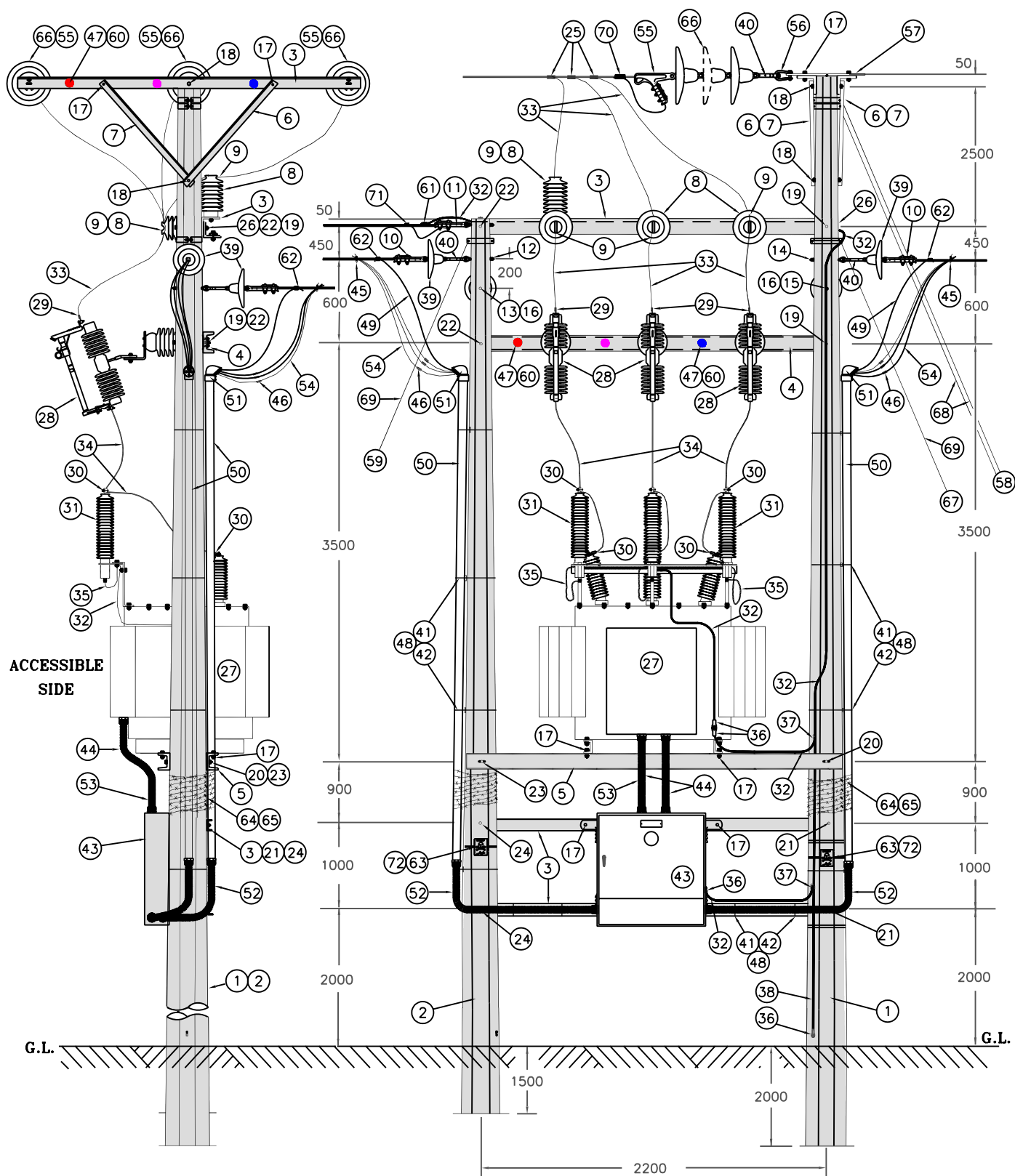
DRW.10B3/3-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.11-200/300kVA TRANSFORMER PLATFORM-13M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
10	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
11	1	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 30
12	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
13	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
14	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	2	Eye Nut M16	20-SDMS-02	Fig. 18
17	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
18	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
19	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
20	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
26	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
27	1	Transformer, 200KVA.	51-SDMS-01	
28	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
29	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
30	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
31	3	Surge Arrester, 33kV	35-SDMS-01	
32	17M	70mm <sup>2</sup> Copper Bare Conductor		
33	18M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
34	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
35	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
36	13	Terminal Lug for 70mm <sup>2</sup> Cu.	12-SDMS-01	
37	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45

**DRW.11A1/3-200kVA TRANSFORMER PLATFORM-13M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	1	Ground Wire Guard	20-SDMS-02	Fig. 47
39	4	Suspension Insulator (Single)	15-SDMS-01	
40	7	Clevis Eye Extension	20-SDMS-02	Fig. 21
41	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
42	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
43	1	P.M.T. Cabinet 800A	31-SDMS-03	
44	6M	Cable - 4x300mm <sup>2</sup> Al. Main Incoming	11-SDMS-01	
45	4	Cable Tie	20-SDMS-02	Fig. 63
46	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
47	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
48	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
49	36M	Cu. Conductor Insulated, stranded 70mm <sup>2</sup> Soft Drawn	11-SDMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D for 4X300mm <sup>2</sup> Incoming Cable	20-SDMS-02	
54	36M	Quadruplex Cable, 120mm <sup>2</sup>	11-SDMS-02	
55	3	Strain Clamp, 3 U-Bolts for Merlin	20-SDMS-02	Fig. 29
56	3	Anchor Shackle	20-SDMS-02	Fig. 20
57	3	Double Arming Plate	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Two stay Assembly	SDCS-01	Drw. 313
59	1 Set	L.T One stay Assembly (Optional)	SDCS-01	Drw. 310
60	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
61	1	Bi-Mettalic Connector, 2 Bolt Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
62	4	Bi-Mettalic Connector, 2 Bolt Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
63	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
64	28M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
65	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulator	15-SDMS-01	
67	1 Set	L.T One stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
68	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
69	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
70	3	Parallel Groove Clamp for 3 U-Bolts type for Merlin ACSR	20-SDMS-02	Fig. 39
71	1	Parallel Groove Clamp for two Bolts type for Quail ACSR	20-SDMS-02	Fig. 39
72	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50

**DRW.11A2/3-200kVA TRANSFORMER PLATFORM-13M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**

DRW.11A3/3-200kVA TRANSFORMER PLATFORM-13M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET





## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
10	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
11	1	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 30
12	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
13	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
14	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	2	Eye Nut M16	20-SDMS-02	Fig. 18
17	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
18	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
19	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
20	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
26	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
27	1	Transformer, 300KVA.	51-SDMS-01	
28	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
29	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
30	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
31	3	Surge Arrester, 33kV	35-SDMS-01	
32	17M	70mm <sup>2</sup> Copper Bare Conductor		
33	18M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
34	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
35	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
36	13	Terminal Lug for 70mm <sup>2</sup> Cu.	12-SDMS-01	
37	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45

**DRW.11B1/3-300kVA TRANSFORMER PLATFORM-13M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: SEPTEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	1	Ground Wire Guard	20-SDMS-02	Fig. 47
39	4	Suspension Insulator (Single)	15-SDMS-01	
40	7	Clevis Eye Extension	20-SDMS-02	Fig. 21
41	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
42	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
43	1	P.M.T. Cabinet 800A	31-SDMS-03	
44	6M	Cable - 4x300mm <sup>2</sup> Al. Main Incoming	11-SDMS-01	
45	4	Cable Tie	20-SDMS-02	Fig. 63
46	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
47	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
48	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
49	36M	Cu. Conductor Insulated, stranded 70mm <sup>2</sup> Soft Drawn	11-SDMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D for 4X300mm <sup>2</sup> Incoming Cable	20-SDMS-02	
54	36M	Quadruplex Cable, 120mm <sup>2</sup>	11-SDMS-02	
55	3	Strain Clamp, 3 U-Bolts for Merlin	20-SDMS-02	Fig. 29
56	3	Anchor Shackle	20-SDMS-02	Fig. 20
57	3	Double Arming Plate	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Two stay Assembly	SDCS-01	Drw. 313
59	1 Set	L.T One stay Assembly (Optional)	SDCS-01	Drw. 310
60	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
61	1	Bi-Mettalic Connector, 2 Bolt Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
62	4	Bi-Mettalic Connector, 2 Bolt Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
63	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
64	28M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
65	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulator	15-SDMS-01	
67	1 Set	L.T One stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
68	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
69	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
70	3	Parallel Groove Clamp for 3 U-Bolts type for Merlin ACSR	20-SDMS-02	Fig. 39
71	1	Parallel Groove Clamp for two Bolts type for Quail ACSR	20-SDMS-02	Fig. 39
72	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50

**DRW.11B2/3-300kVA TRANSFORMER PLATFORM-13M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**

DRW.11B3/3-300kVA TRANSFORMER PLATFORM-13M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



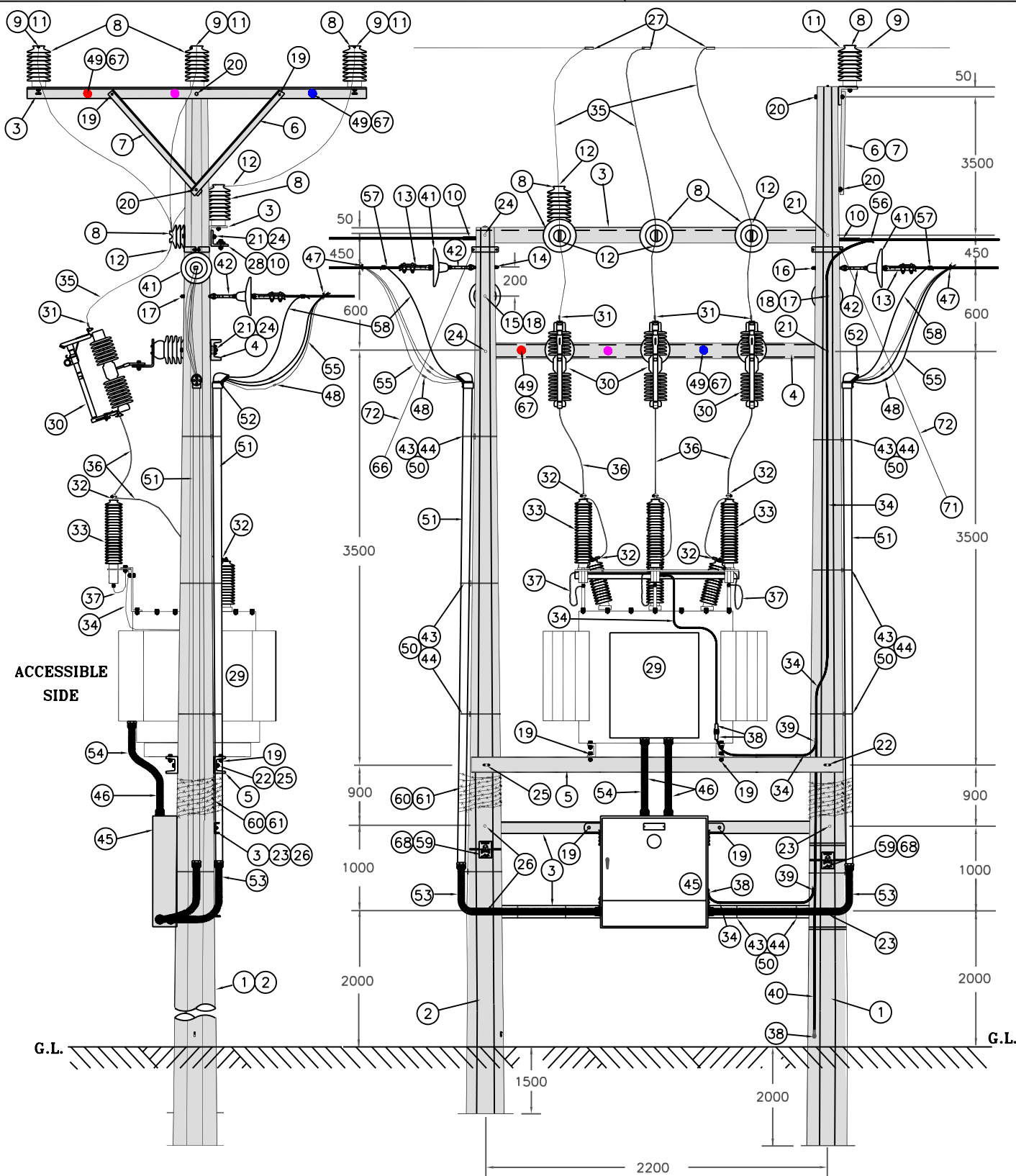
**200/300kVA PMT ON 14M POLE  
H-FRAME TRANSFORMER STRUCTURE**



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.12-200/300kVA TRANSFORMER PLATFORM-14M MV & 10M LV  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SDMS-02	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	2	Machine Bolt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm L.G.	20-SDMS-02	Fig. 6
29	1	Transformer, 200KVA.	51-SDMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
31	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
32	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	
33	3	Surge Arrester, 33kV	35-SDMS-01	
34	15M	70mm <sup>2</sup> Copper Bare Conductor		
35	21M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
37	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

**DRW.12A1/2-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET**

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
39	2	Crimp Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SDMS-01	Clause 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable.	20-SDMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable.	20-SDMS-02	
55	36M	Quadruplex Cable, Al. 120mm <sup>2</sup>	11-SDMS-02	
56	1	Bi-Metallic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
57	4	Bi-Metallic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
60	29M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
67	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
68	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
69	16	Terminal Lugs for Cable 4X300mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
70	12	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
71	1 Set	L.T One Stay Assembly On PMT- Structure/200	SDCS-01	Drw. 321
72	28M	Stay wire 7/3.25, 9.8mm Dia., HDG steel. UTS 65kN Min. (Optional)	SDCS-01	

DRW.12A2/2-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRPF4





## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SDMS-02	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	2	Machine Bolt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm L.G.	20-SDMS-02	Fig. 6
29	1	Transformer, 300KVA.	51-SDMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
31	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
32	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	
33	3	Surge Arrester, 33kV	35-SDMS-01	
34	15M	70mm <sup>2</sup> Copper Bare Conductor		
35	21M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
37	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

**DRW.12B1/2-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET**

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
39	2	Crimp Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethelene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethelene Rigid Pipe for Outgoing Cable.	20-SDMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable.	20-SDMS-02	
55	36M	Quadruplex Cable, Al., 120mm <sup>2</sup>	11-SDMS-02	
56	1	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
57	4	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
60	29M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
67	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
68	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
69	16	Terminal Lugs for Cable 4X300mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
70	12	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
71	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
72	28M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	

DRW.12B2/2-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

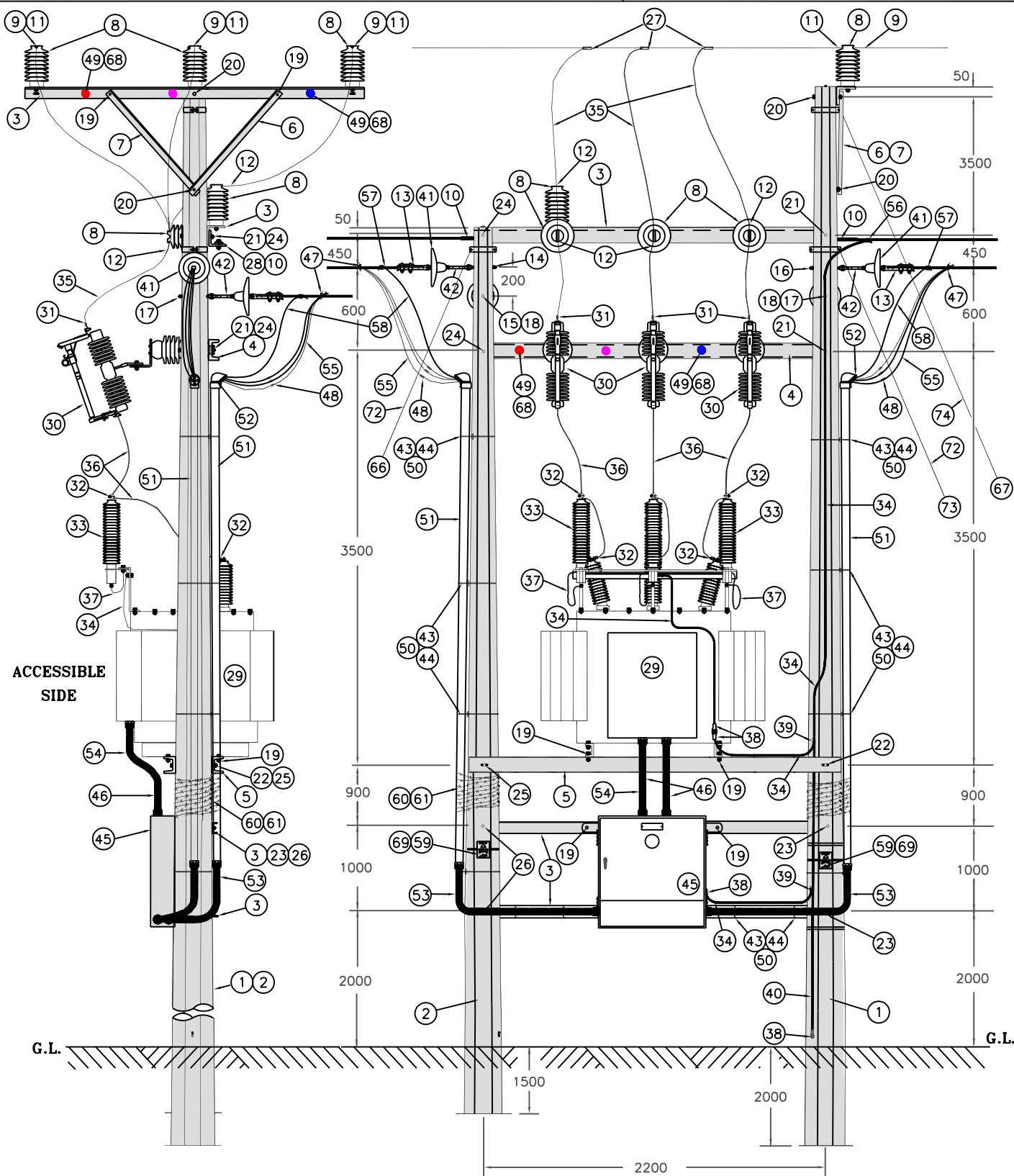
TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.13-200/300kVA TRANSFORMER PLATFORM-14M MV & 10M LV  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SDMS-02	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	2	Machine Bolt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
29	1	Transformer, 200KVA.	51-SDMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
31	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
32	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	
33	3	Surge Arrester, 33kV	35-SDMS-01	
34	15M	70mm <sup>2</sup> Copper Bare Conductor		
35	21M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
37	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

**DRW.13A1/2-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
39	2	Crimp Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SDMS-01	Clause 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable.	20-SDMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable.	20-SDMS-02	
55	36M	Quadruplex Cable, Al. 120mm <sup>2</sup>	11-SDMS-02	
56	1	Bi-Metallic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
57	4	Bi-Metallic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
60	29M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
67	1 Set	M.V-S.C One Stay Assembly	SDCS-01	Drw. 312
68	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
69	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
70	16	Terminal Lugs for Cable 4X300mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
71	12	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
72	28M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
73	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
74	17M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN (Min.)	SDCS-01	

**DRW.13A2/2-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SDMS-02	Fig. 16
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	2	Machine Bolt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
29	1	Transformer, 300KVA.	51-SDMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
31	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
32	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	
33	3	Surge Arrester, 33kV	35-SDMS-01	
34	15M	70mm <sup>2</sup> Copper Bare Conductor		
35	21M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
37	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

**DRW.13B1/2-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

TRPF4





## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
39	2	Crimp Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable	20-SDMS-02	
54	2	Flexible Pipe, 2 Mtr. 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable	20-SDMS-02	
55	36M	Quadruplex Cable, Al. 120mm <sup>2</sup>	11-SDMS-02	
56	1	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
57	4	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	11-SDMS-01	Fig. 49
60	29M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
67	1 Set	M.V-S.C One Stay Assembly	SDCS-01	Drw. 312
68	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
69	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
70	16	Terminal Lugs for Cable 4X300mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
71	12	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
72	28M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
73	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
74	17M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN (Min.)	SDCS-01	

**DRW.13B2/2-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

TRPF4

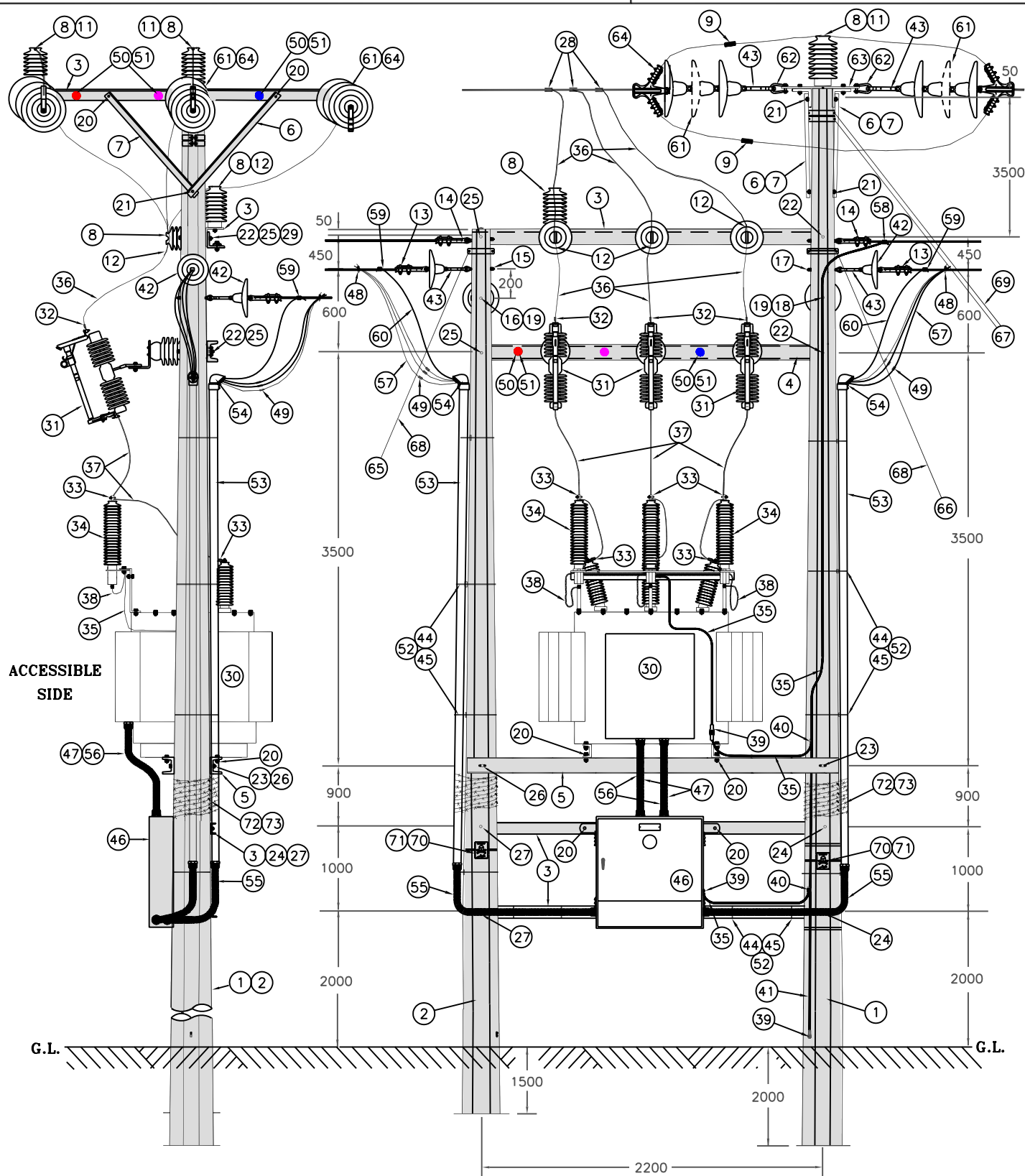




SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.14-200/300kVA TRANSFORMER PLATFORM-14M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	6	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3	Parallel Groove Compression Connector for 170.5mm <sup>2</sup> ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Compression Connector for 67.44mm <sup>2</sup> ACSR/AW (Quail-Quail)	20-SDMS-02	Fig. 39
11	2 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	2	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 30
15	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
19	2	Eye Nut, M16	20-SDMS-02	Fig. 16
20	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
21	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
28	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
29	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transformer, 200KVA.	51-SDMS-01	
31	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
32	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
33	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	
34	3	Surge Arrester, 33kV	35-SDMS-01	
35	15M	70mm <sup>2</sup> Copper Bare Conductor		
36	21M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
37	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	

**DRW.14A1/3-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
39	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
40	2	Crimp Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
41	1	Ground Wire Guard	20-SDMS-02	Fig. 47
42	4	Suspension Insulator (Single)	15-SDMS-01	Page.23
43	10	Clevis Eye Extension	20-SDMS-02	Fig. 21
44	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
46	1	P.M.T. Cabinet 800A.	31-SDMS-03	
47	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
48	4	Cable Tie	20-SDMS-02	Fig. 63
49	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
52	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
53	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
54	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable.	20-SDMS-02	
57	36M	Quadruplex Cable, 120mm <sup>2</sup>	11-SDMS-02	
58	1	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
59	4	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
60	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn	11-SDMS-01	
61	6 Set	Suspension Insulator	15-SDMS-01	Page. 23
62	6	Anchor Shackle	20-SDMS-02	Fig. 20
63	3	Double Arming Plate, 100x12x700mm Lg.	20-SDMS-02	Fig. 07
64	6	Strain Clamp, 3U-Bolts type for Merlin	20-SDMS-02	Fig. 29
65	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
66	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 310
67	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 313
68	28M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
69	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
70	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
71	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
72	29M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
73	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13

**DRW.14A2/3-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**

TRPF4

DRW.14A3/3-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	6	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3	Parallel Groove Compression Connector for 170.5mm <sup>2</sup> ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Compression Connector for 67.44mm <sup>2</sup> ACSR/AW (Quail-Quail)	20-SDMS-02	Fig. 39
11	2 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	2	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
19	2	Eye Nut, M16	20-SDMS-02	Fig. 16
20	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
21	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
28	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
29	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transformer, 300KVA	51-SDMS-01	
31	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
32	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
33	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
34	3	Surge Arrester, 33kV	35-SDMS-01	
35	15M	70mm <sup>2</sup> Copper Bare Conductor		
36	21M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
37	9M	Cu. Conductor, Insulated stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	

**DRW.14B1/3-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**

TRPF4



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
39	13	Terminal Lugs for 70mm <sup>2</sup> , Cu.	12-SDMS-01	
40	2	Crimp Cu. Connector For 70mm <sup>2</sup> .	20-SDMS-02	Fig. 45
41	1	Ground Wire Guard	20-SDMS-02	Fig. 47
42	4	Suspension Insulator (Single)	15-SDMS-01	Page.23
43	10	Clevis Eye Extension	20-SDMS-02	Fig. 21
44	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
46	1	P.M.T. Cabinet 800A.	31-SDMS-03	
47	6M	Cable Aluminium- 4x300mm <sup>2</sup> Main Incoming	11-SDMS-01	
48	4	Cable Tie	20-SDMS-02	Fig. 63
49	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
52	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
53	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
54	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm <sup>2</sup> Incoming Cable.	20-SDMS-02	
57	36M	Quadruplex Cable, 120mm <sup>2</sup>	11-SDMS-02	
58	1	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
59	4	Bi-Metalic connector, 2Bolts type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
60	36M	Cu. Conductor, Insulated stranded 70mm <sup>2</sup> Soft Drawn	11-SDMS-01	
61	6 Set	Suspension Insulator	15-SDMS-01	Page. 23
62	6	Anchor Shackle	20-SDMS-02	Fig. 20
63	3	Double Arming Plate, 100x12x700mm Lg.	20-SDMS-02	Fig. 07
64	6	Strain Clamp, 3U-Bolts type for Merlin	20-SDMS-02	Fig. 29
65	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Drw. 310
66	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 310
67	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 313
68	28M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
69	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
70	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
71	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
72	29M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
73	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13

**DRW.14B2/3-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**

TRPF4

DRW.14B3/3-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

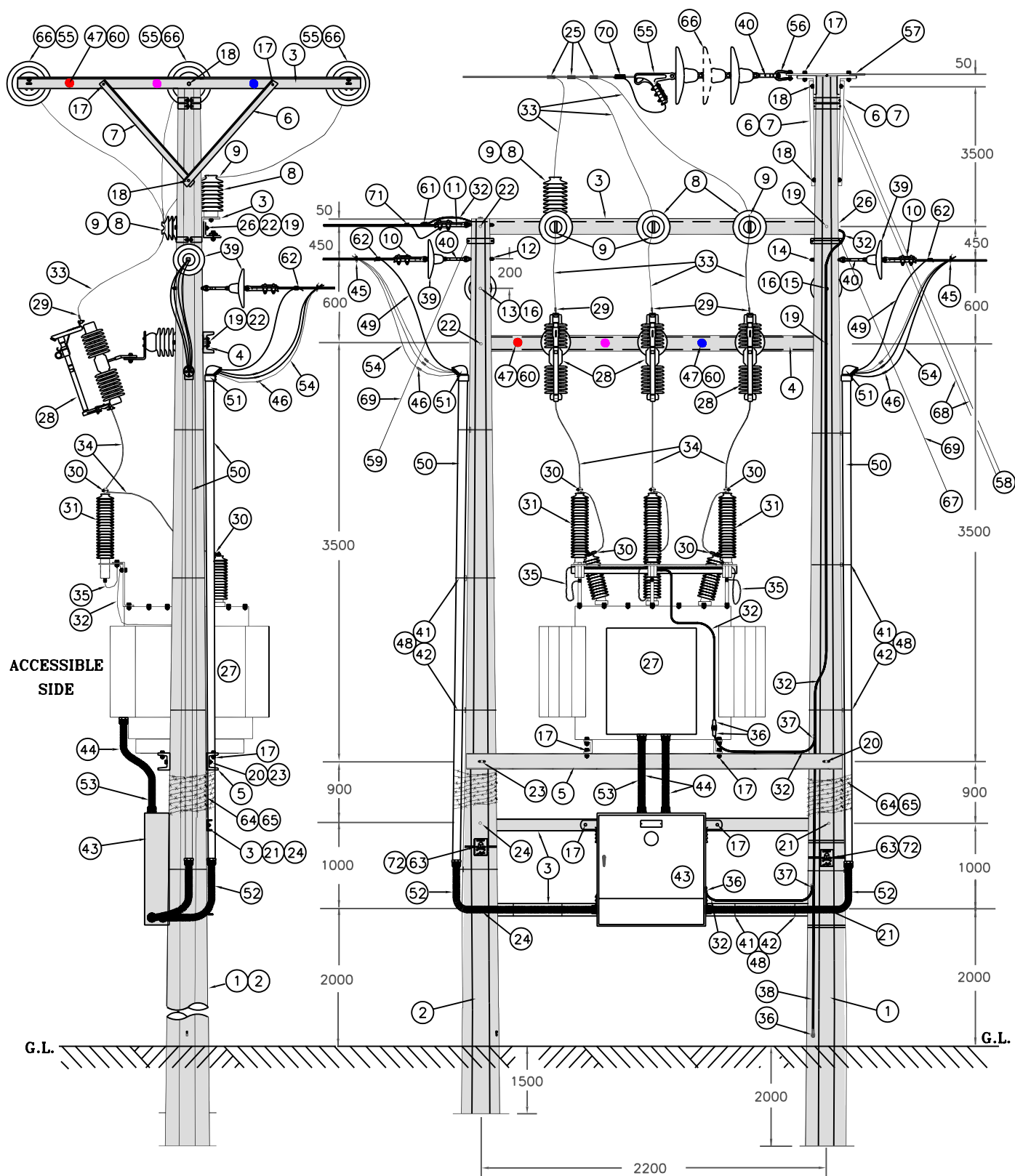




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DRW.15-200/300kVA TRANSFORMER PLATFORM-14M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET

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SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	4 Set	Prefomed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
10	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
11	1	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 30
12	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
13	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
14	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	2	Eye Nut M16	20-SDMS-02	Fig. 18
17	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
18	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
19	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
20	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
26	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
27	1	Transformer, 200KVA.	51-SDMS-01	
28	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
29	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
30	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
31	3	Surge Arrester, 33kV	35-SDMS-01	
32	17M	70mm <sup>2</sup> Copper Bare Conductor		
33	21M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
34	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
35	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
36	13	Terminal Lug for 70mm <sup>2</sup> Cu.	12-SDMS-01	
37	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45

**DRW.15A1/3-200kVA TRANSFORMER PLATFORM-14M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	1	Ground Wire Guard	20-SDMS-02	Fig. 47
39	4	Suspension Insulator (Single)	15-SDMS-01	
40	7	Clevis Eye Extension	20-SDMS-02	Fig. 21
41	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
42	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
43	1	P.M.T. Cabinet 800A	31-SDMS-03	
44	6M	Cable - 4x300mm <sup>2</sup> Al. Main Incoming	11-SDMS-01	
45	4	Cable Tie	20-SDMS-02	Fig. 63
46	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
47	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
48	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
49	36M	Cu. Conductor Insulated, stranded 70mm <sup>2</sup> Soft Drawn	11-SDMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D for 4X300mm <sup>2</sup> Incoming Cable	20-SDMS-02	
54	36M	Quadruplex Cable, 120mm <sup>2</sup>	11-SDMS-02	
55	3	Strain Clamp, 3 U-Bolts for Merlin	20-SDMS-02	Fig. 29
56	3	Anchor Shackle	20-SDMS-02	Fig. 20
57	3	Double Arming Plate	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Two stay Assembly	SDCS-01	Drw. 313
59	1 Set	L.T One stay Assembly (Optional)	SDCS-01	Drw. 310
60	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
61	1	Bi-Mettalic Connector, 2 Bolt Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
62	4	Bi-Mettalic Connector, 2 Bolt Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
63	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
64	29M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
65	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulator	15-SDMS-01	
67	1 Set	L.T One stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
68	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
69	28M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
70	3	Parallel Groove Clamp for 3 U-Bolts type for Merlin ACSR	20-SDMS-02	Fig. 39
71	1	Parallel Groove Clamp for two Bolts type for Quail ACSR	20-SDMS-02	Fig. 39
72	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50

**DRW.15A2/3-200kVA TRANSFORMER PLATFORM-14M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**

DRW.15A3/3-200kVA TRANSFORMER PLATFORM-14M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
10	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
11	1	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 30
12	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
13	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
14	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	2	Eye Nut M16	20-SDMS-02	Fig. 18
17	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
18	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
19	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
20	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
26	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
27	1	Transformer, 300KVA.	51-SDMS-01	
28	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
29	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
30	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
31	3	Surge Arrester, 33kV	35-SDMS-01	
32	17M	70mm <sup>2</sup> Copper Bare Conductor		
33	21M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
34	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn	11-SDMS-01	
35	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
36	13	Terminal Lug for 70mm <sup>2</sup> Cu.	12-SDMS-01	
37	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45

**DRW.15B1/3-300kVA TRANSFORMER PLATFORM-14M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	1	Ground Wire Guard	20-SDMS-02	Fig. 47
39	4	Suspension Insulator (Single)	15-SDMS-01	
40	7	Clevis Eye Extension	20-SDMS-02	Fig. 21
41	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
42	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
43	1	P.M.T. Cabinet 800A	31-SDMS-03	
44	6M	Cable - 4x300mm <sup>2</sup> Al. Main Incoming	11-SDMS-01	
45	4	Cable Tie	20-SDMS-02	Fig. 63
46	12	Insulated Type Sleeve for Connecting Quadruplex 120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
47	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
48	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
49	36M	Cu. Conductor Insulated, stranded 70mm <sup>2</sup> Soft Drawn	11-SDMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D for 4X300mm <sup>2</sup> Incoming Cable	20-SDMS-02	
54	36M	Quadruplex Cable, 120mm <sup>2</sup>	11-SDMS-02	
55	3	Strain Clamp, 3 U-Bolts for Merlin	20-SDMS-02	Fig. 29
56	3	Anchor Shackle	20-SDMS-02	Fig. 20
57	3	Double Arming Plate	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Two stay Assembly	SDCS-01	Drw. 313
59	1 Set	L.T One stay Assembly (Optional)	SDCS-01	Drw. 310
60	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
61	1	Bi-Mettalic Connector, 2 Bolt Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
62	4	Bi-Mettalic Connector, 2 Bolt Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
63	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
64	29M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
65	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulator	15-SDMS-01	
67	1 Set	L.T One stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
68	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
69	28M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
70	3	Parallel Groove Clamp for 3 U-Bolts type for Merlin ACSR	20-SDMS-02	Fig. 39
71	1	Parallel Groove Clamp for two Bolts type for Quail ACSR	20-SDMS-02	Fig. 39
72	2 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50

**DRW.15B2/3-300kVA TRANSFORMER PLATFORM-14M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**

DRW.15B3/3-300kVA TRANSFORMER PLATFORM-14M MV & 10M LV  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET





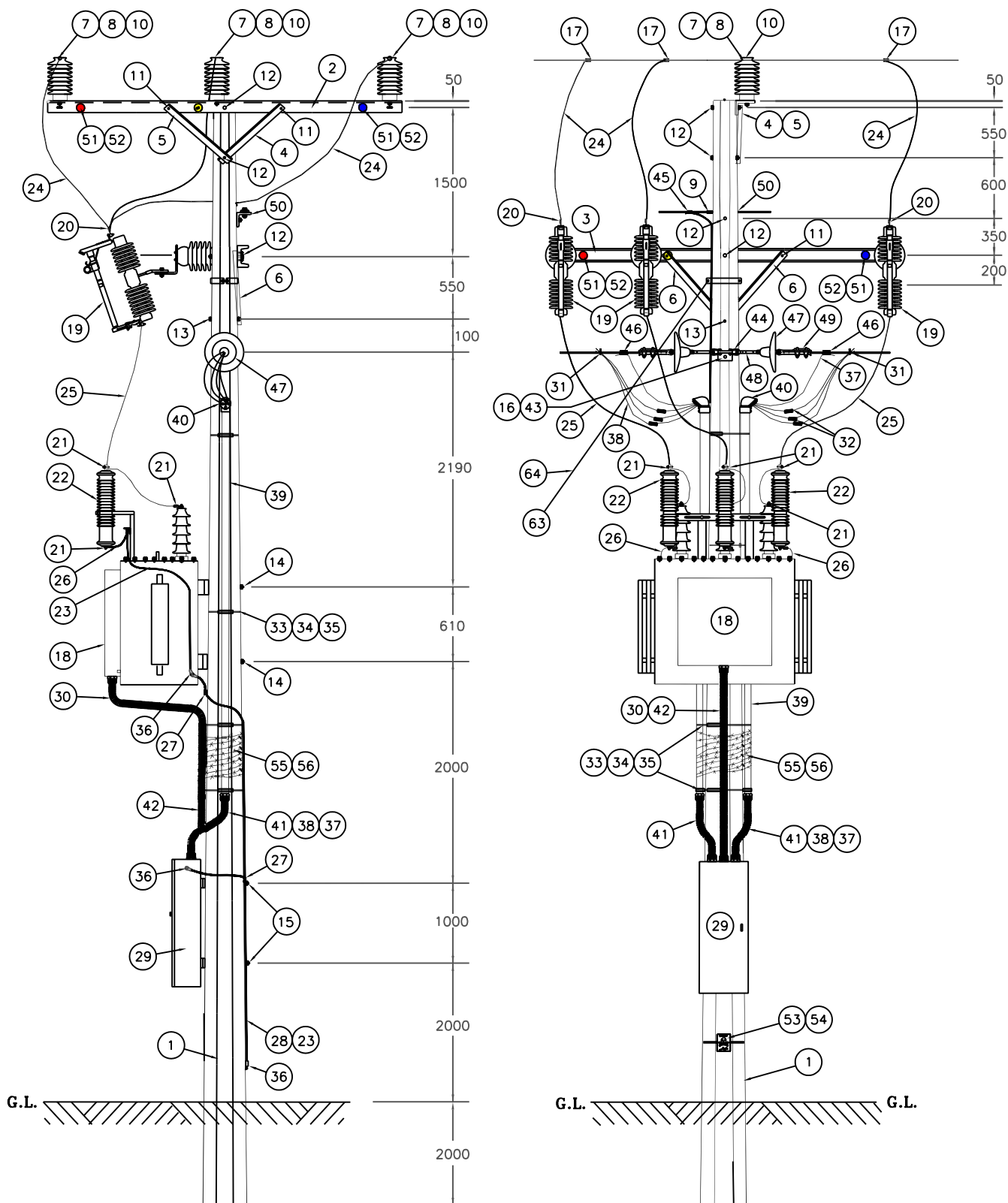
**50/100kVA PMT ON 12M POLE  
SINGLE POLE TRANSFORMER STRUCTURE**



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SDCS-01

DATE: DECEMBER 2005G



DRW.180-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 12M M.V  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Cu. Bare Conductor		
24	15M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.180A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup> Al.	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
51	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
52	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
53	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
54	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
55	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
56	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
57	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
58	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
59	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
60	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
61	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
62	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
63	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01 Drw. 310
64	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01

DRW.180A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1B



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100kVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Cu. Bare Conductor		
24	15M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.180B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup> Al.	11-SDMS-02
39	2	Polyethylene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
51	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
52	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
53	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
54	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
55	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
56	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
57	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
58	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
59	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
60	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
61	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
62	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
63	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01 Drw. 310
64	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01

DRW.180B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

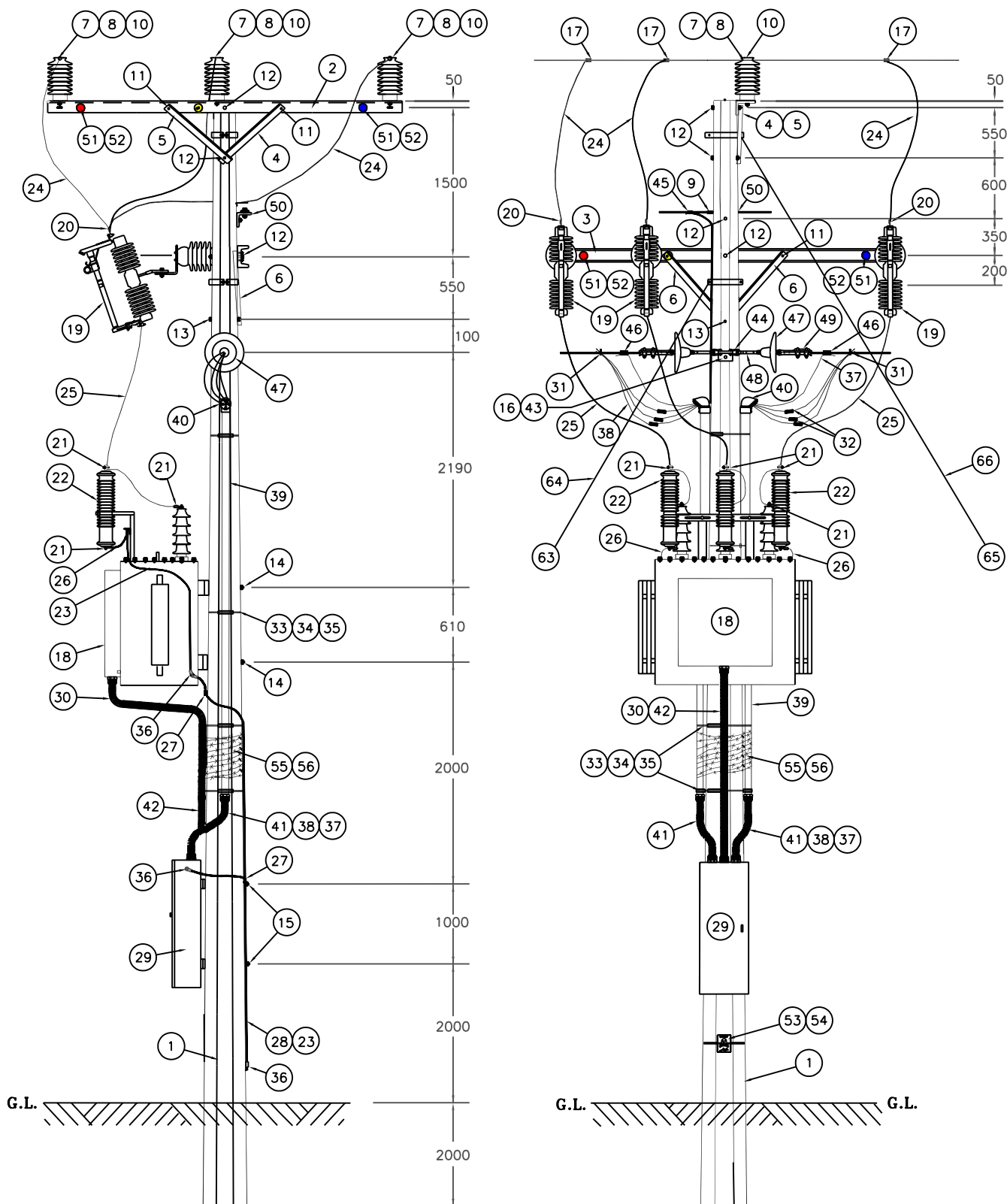
TRSP1B



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.181-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 12M M.V  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER





## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Cu. Bare Conductor		
24	15M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.181A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup> Al.	11-SDMS-02
39	2	Polyethylene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
51	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
52	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
53	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
54	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
55	15M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
56	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
57	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
58	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
59	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
60	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
61	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
62	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
63	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01 Drw. 310
64	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
65	1 Set	M.V-S.C One Stay assembly	SDCS-01 Drw. 312
66	15M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01

DRW.181A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1B



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Cu. Bare Conductor		
24	15M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.181B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup> Al.	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
51	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
52	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
53	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
54	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
55	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
56	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
57	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
58	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
59	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
60	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
61	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
62	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
63	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01 Drw. 310
64	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
65	1 Set	M.V-S.C One Stay assembly	SDCS-01 Drw. 312
66	15M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01

DRW.181B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

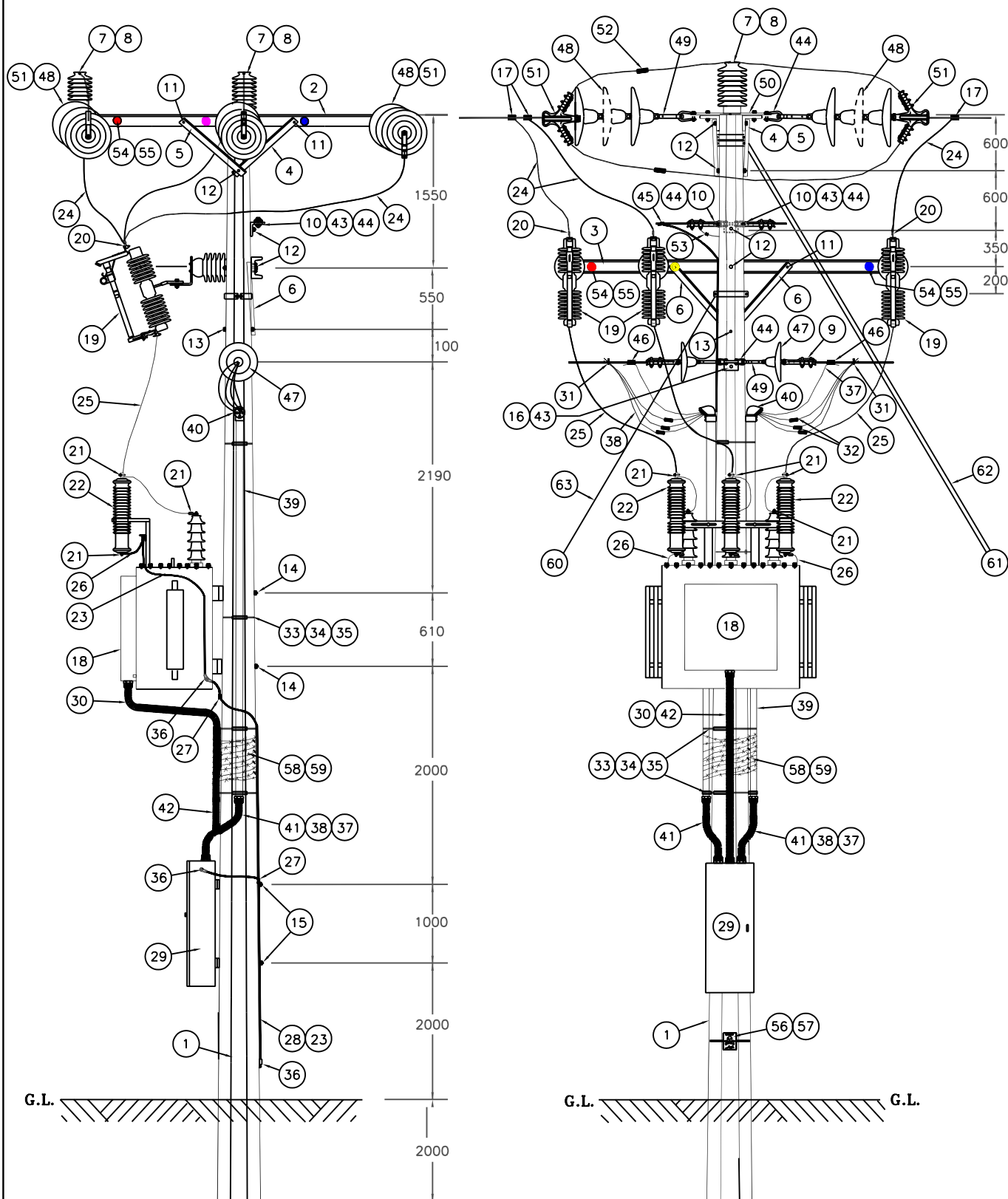
TRSP1B



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.182-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 12M M.V  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Copper. Bare Conductor		
24	15M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.182A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup>	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	2	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	10	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	6	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove Compression Connector for 170mm <sup>2</sup> ACSR/AW (Merlin-Merlin)	20-SDMS-02 Fig. 39
53	1	Parallel Groove Compression Connector for 67.44mm <sup>2</sup> ACSR/AW (Quail-Quail)	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	29M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
68	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4

**DRW.182A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**





## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Copper. Bare Conductor		
24	15M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.182B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



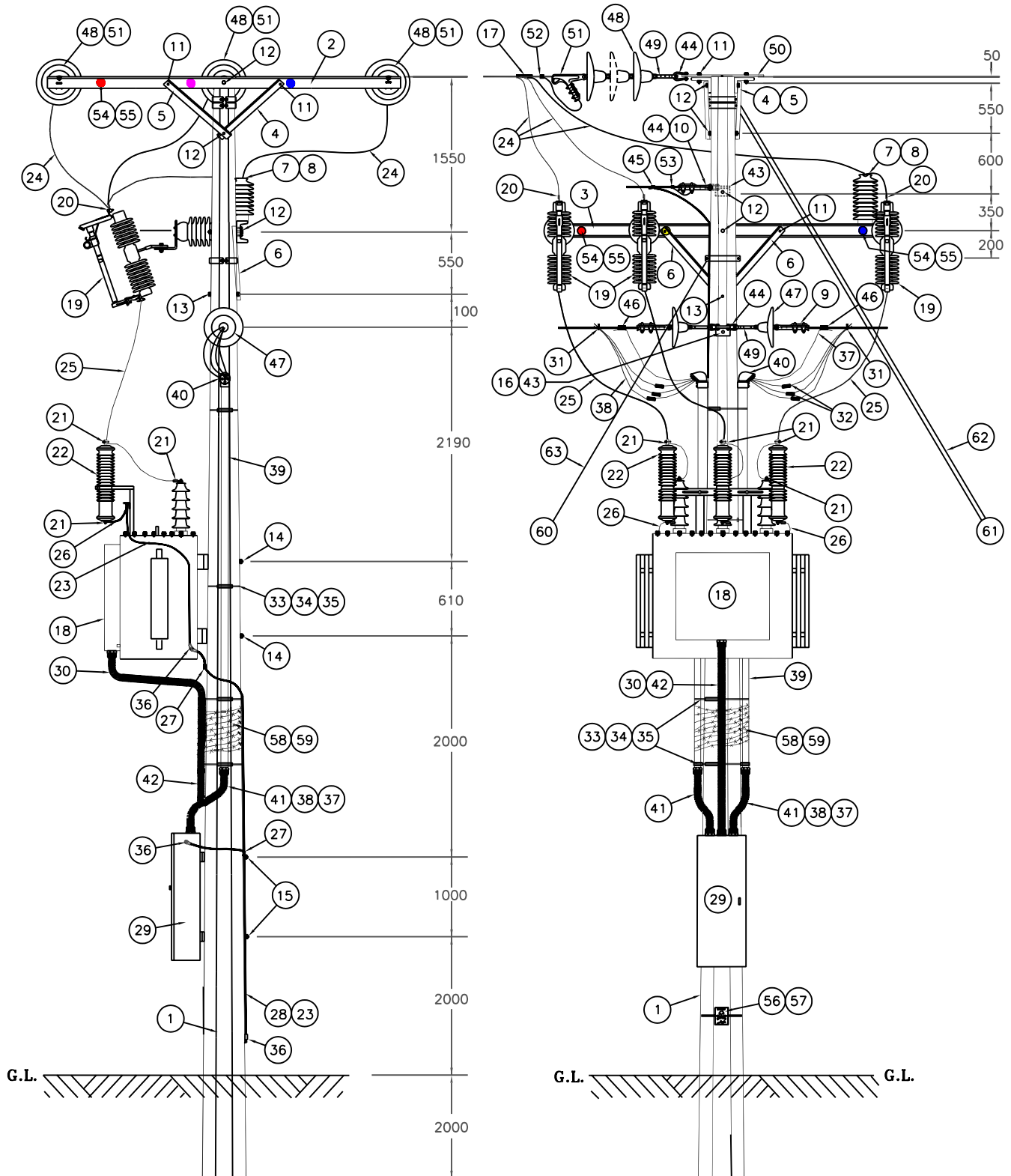
SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup>	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	2	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	10	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	6	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove Compression Connector for 170mm <sup>2</sup> ACSR/AW (Merlin-Merlin)	20-SDMS-02 Fig. 39
53	1	Parallel Groove Compression Connector for 67.44mm <sup>2</sup> ACSR/AW (Quail-Quail)	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	29M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
68	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4

DRW.182B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



DRW.183-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 12M M.V  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	1 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Copper. Bare Conductor		
24	15M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.183A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup>	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	2	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	6	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	3 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	5	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	3	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm <sup>2</sup>	20-SDMS-02 Fig. 39
53	1	Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm <sup>2</sup>	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	29M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
68	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4

**DRW.183A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	1 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Copper. Bare Conductor		
24	15M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.183B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup>	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	2	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	6	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	3 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	5	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	3	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm <sup>2</sup>	20-SDMS-02 Fig. 39
53	1	Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm <sup>2</sup>	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	29M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
68	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4

**DRW.183B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**





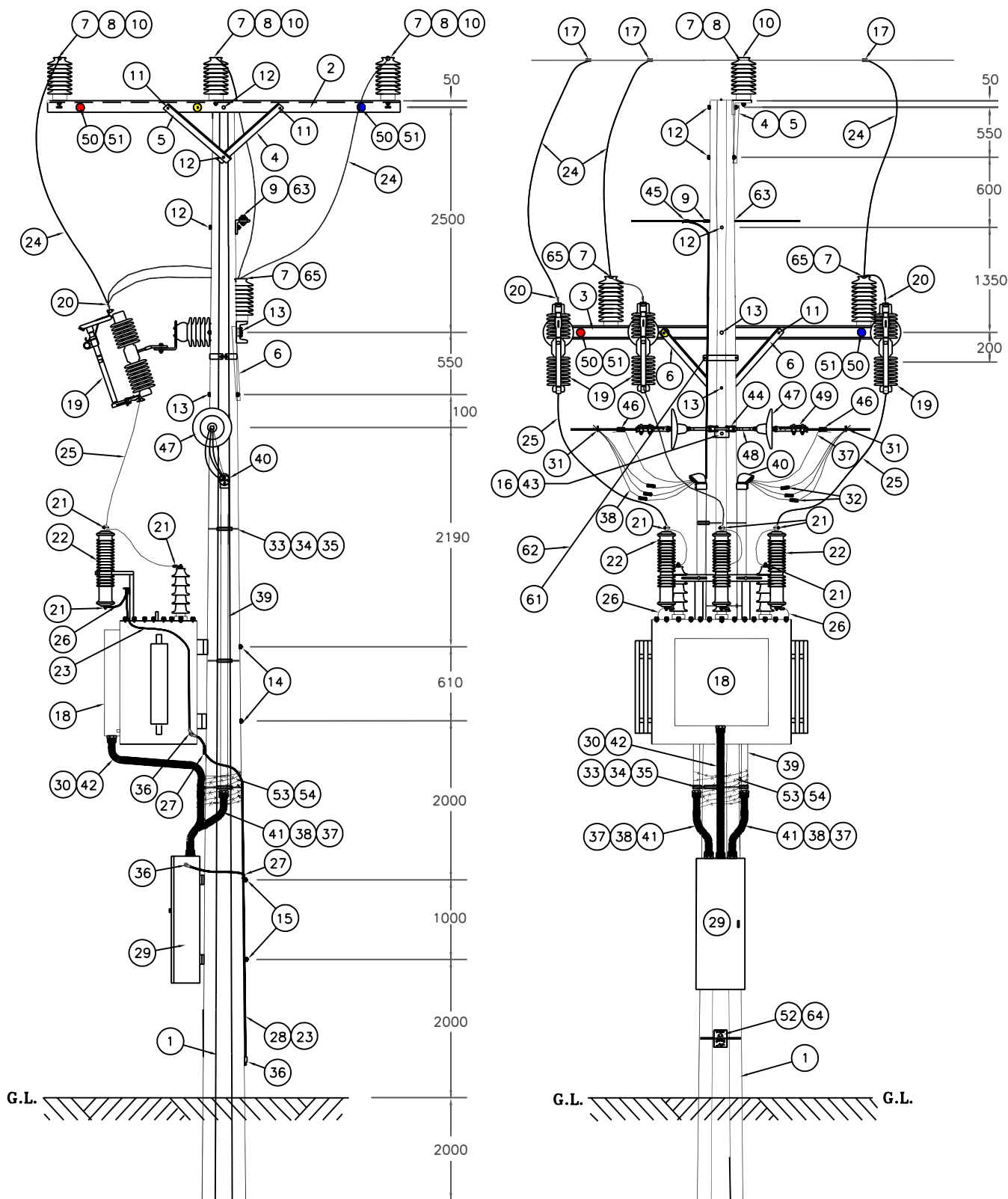
**50/100kVA PMT ON 13M POLE  
SINGLE POLE TRANSFORMER STRUCTURE**



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.184-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 13M M.V  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Cu. Bare Conductor		
24	18M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.184A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup> Al.	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
53	16M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
59	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01 Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
63	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
64	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
65	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02 Fig. 35

DRW.184A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1B



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100kVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Cu. Bare Conductor		
24	18M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.184B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
36	11	Terminal Lug 70mm <sup>2</sup> Cu. Cable	12-SDMS-02	
37	18M	Cu. Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn		
38	18M	Quadruplex Cable 120mm <sup>2</sup> Al.	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02	
43	1	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
44	2	Anchore Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02	
47	2	Suspension Insulator	15-SDMS-01	Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02	Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
53	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
59	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02	Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01	Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
63	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
64	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
65	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35

DRW.184B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

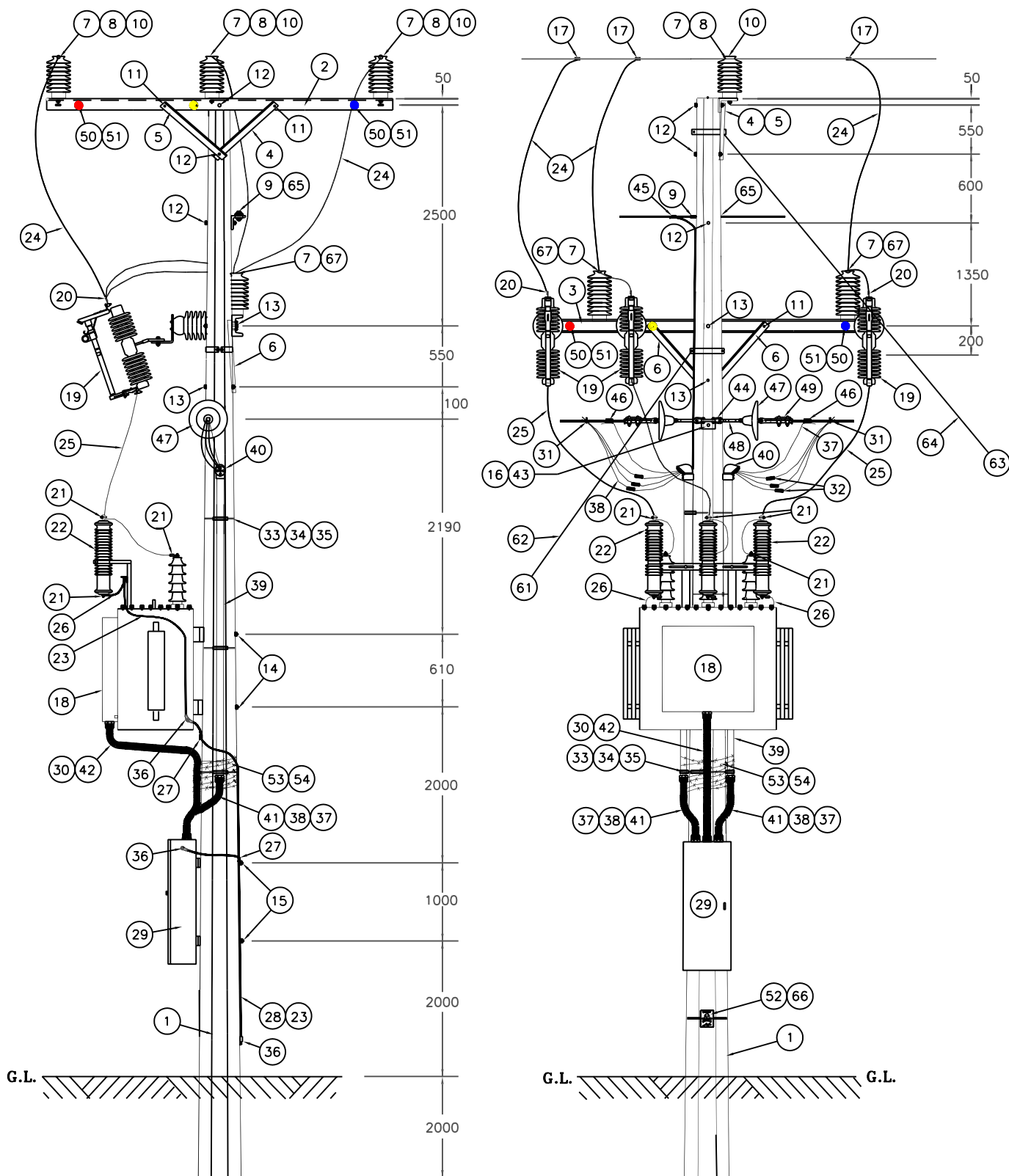
TRSP1B



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.185-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 13M M.V  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER





## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Cu. Bare Conductor		
24	18M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.185A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup> Al.	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
53	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
59	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01 Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
63	1 Set	M.V-S.C One Stay assembly	SDCS-01 Drw. 312
64	16M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01
65	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
66	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
67	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02 Fig. 35

DRW.185A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1B



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Cu. Bare Conductor		
24	18M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.185B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup> Al.	11-SDMS-02
39	2	Polyethylene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
53	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
59	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01 Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
63	1 Set	M.V-S.C One Stay assembly	SDCS-01 Drw. 312
64	16M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01
65	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
66	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
67	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02 Fig. 35

DRW.185B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

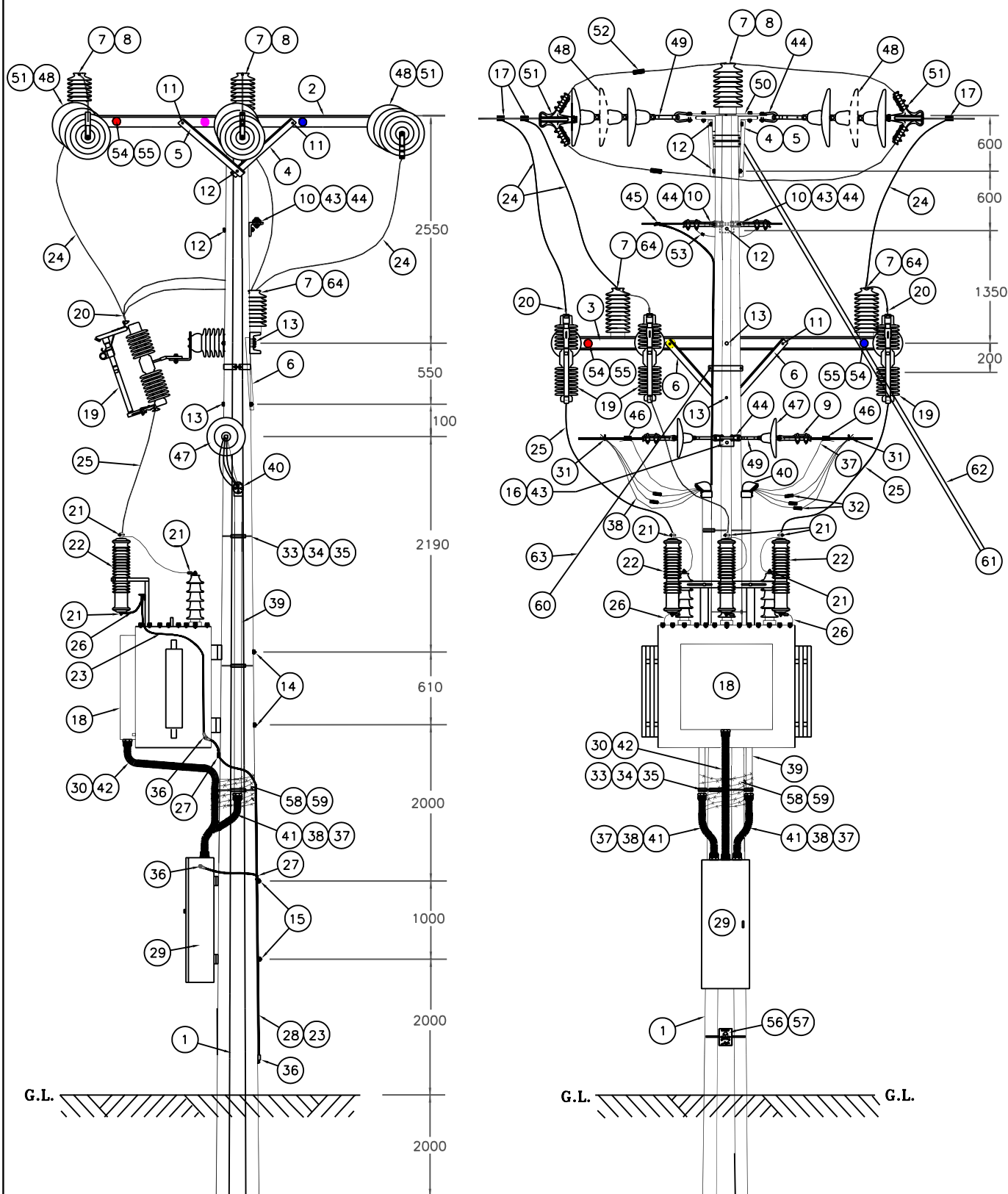
TRSP1B



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.186-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 13M M.V.  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Copper. Bare Conductor		
24	18M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

**DRW.186A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup>	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	2	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	10	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	6	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove Compression Connector for 170mm <sup>2</sup> ACSR/AW (Merlin-Merlin)	20-SDMS-02 Fig. 39
53	1	Parallel Groove Compression Connector for 67.44mm <sup>2</sup> ACSR/AW (Quail-Quail)	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02 Fig. 35
65	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
66	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
67	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
68	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
69	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
70	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4

**DRW.186A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**





## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Copper. Bare Conductor		
24	18M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

**DRW.186B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup>	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	2	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	10	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	6	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove Compression Connector for 170mm <sup>2</sup> ACSR/AW (Merlin-Merlin)	20-SDMS-02 Fig. 39
53	1	Parallel Groove Compression Connector for 67.44mm <sup>2</sup> ACSR/AW (Quail-Quail)	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02 Fig. 35
65	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
66	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
67	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
68	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
69	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
70	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4

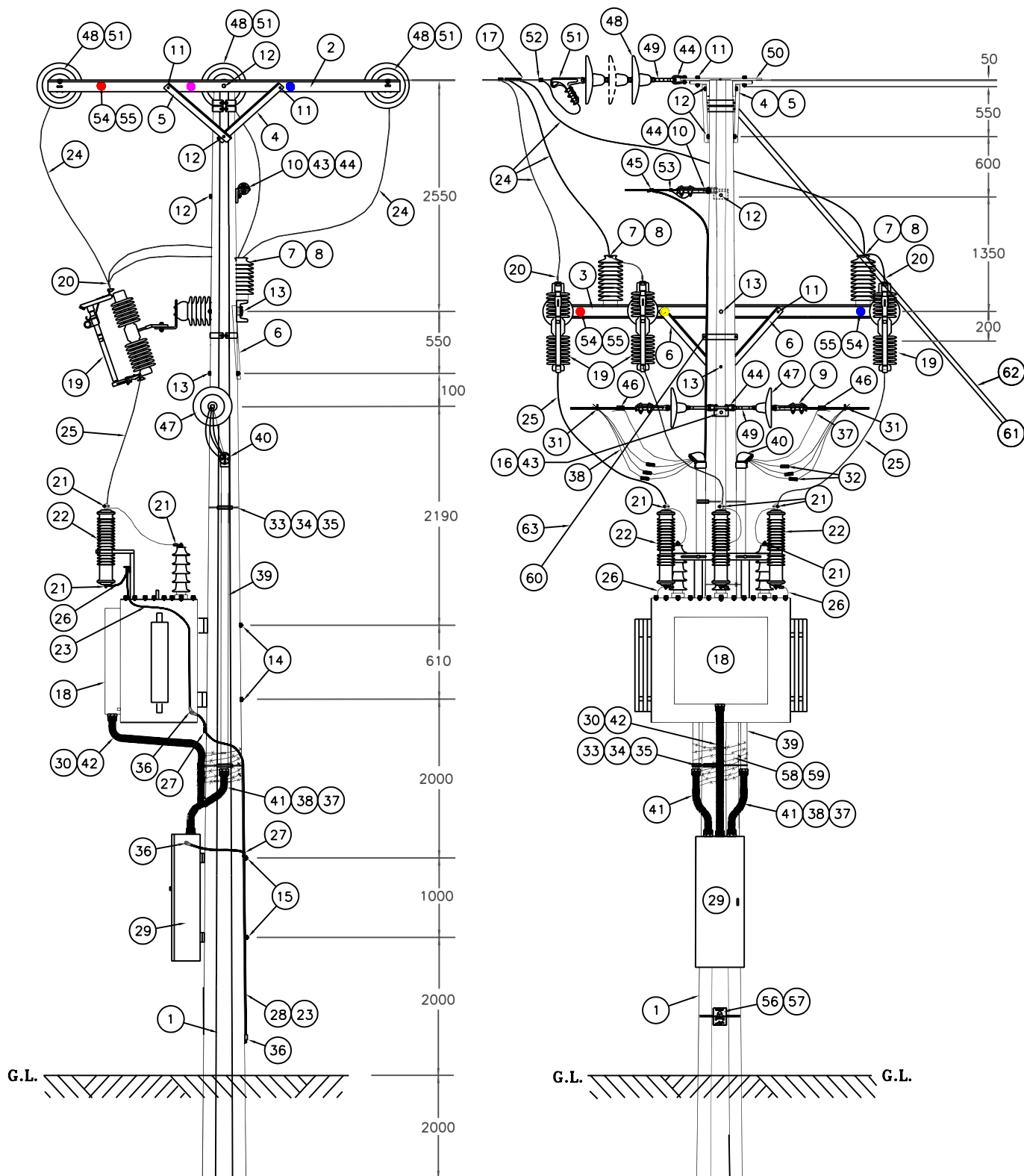
**DRW.186B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.187-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 13M M.V  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET

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## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Copper. Bare Conductor		
24	18M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.187A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup>	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	2	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	6	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	3 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	5	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	3	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm <sup>2</sup>	20-SDMS-02 Fig. 39
53	1	Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm <sup>2</sup>	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
68	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4

**DRW.187A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Copper. Bare Conductor		
24	18M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.187B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup>	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	2	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	6	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	3 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	5	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	3	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm <sup>2</sup>	20-SDMS-02 Fig. 39
53	1	Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm <sup>2</sup>	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
68	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4

**DRW.187B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**





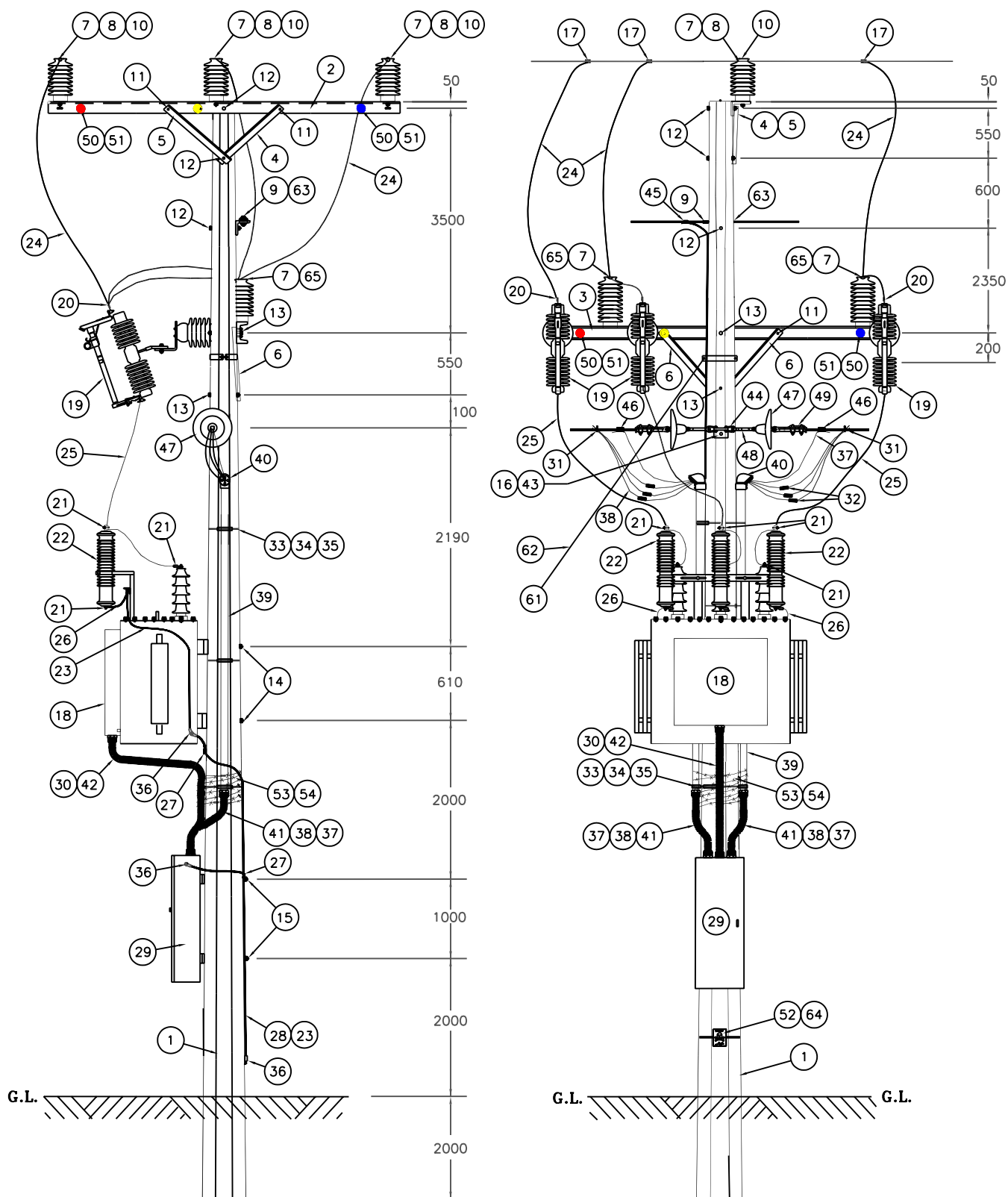
**50/100kVA PMT ON 14M POLE  
SINGLE POLE TRANSFORMER STRUCTURE**



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.188-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 14M M.V  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Cu. Bare Conductor		
24	21M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.188A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup> Al.	11-SDMS-02
39	2	Polyethylene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
53	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
59	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/240 (Optional)	SDCS-01 Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
63	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
64	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
65	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02 Fig. 35

DRW.188A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1B



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100kVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Cu. Bare Conductor		
24	21M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.188B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup> Al.	11-SDMS-02
39	2	Polyethylene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
53	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
59	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/240 (Optional)	SDCS-01 Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
63	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
64	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
65	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02 Fig. 35

DRW.188B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V  
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

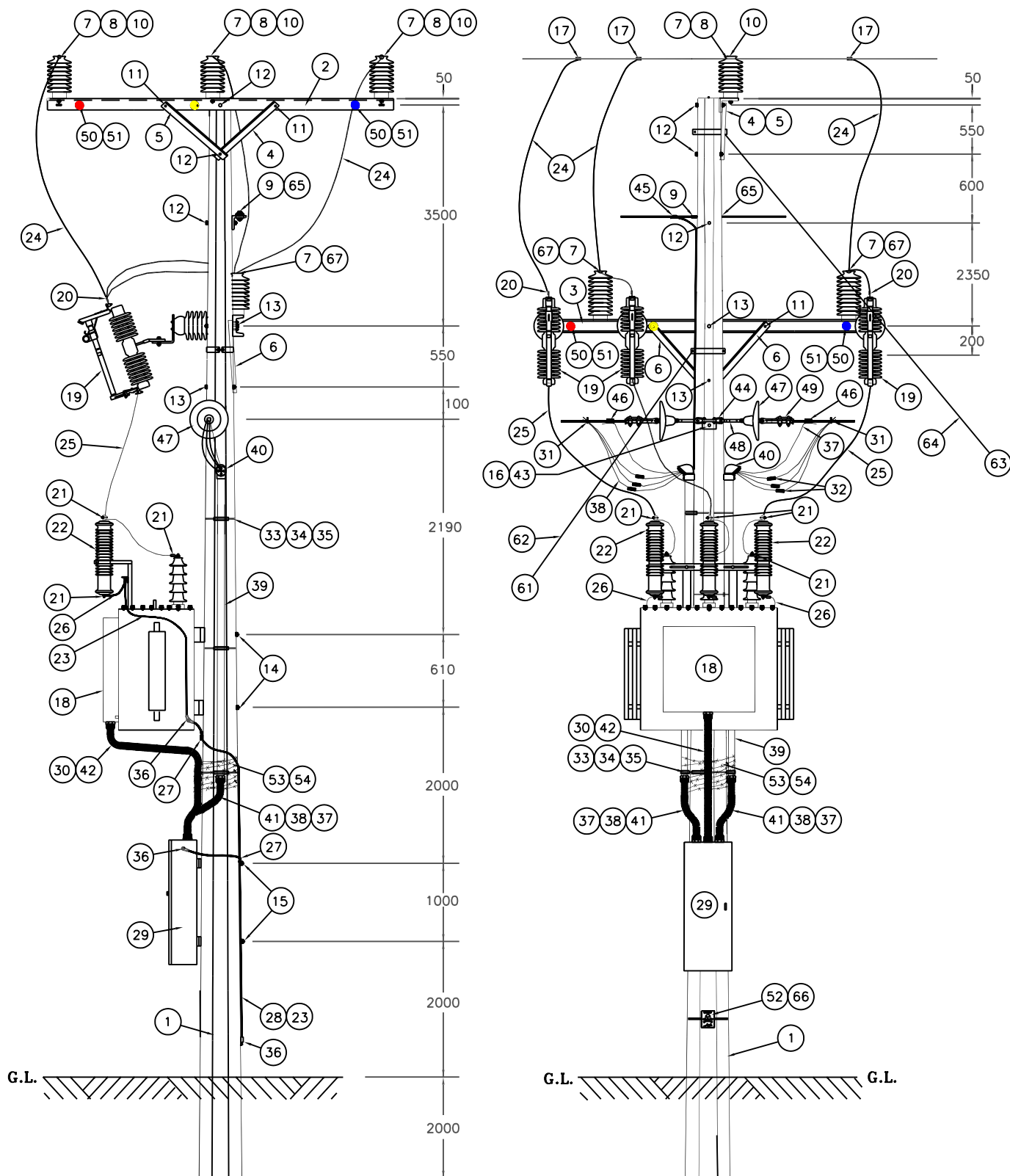
TRSP1B



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.189-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 14M M.V  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER





## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Cu. Bare Conductor		
24	21M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.189A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup> Al.	11-SDMS-02
39	2	Polyethylene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
53	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
59	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/240 (Optional)	SDCS-01 Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
63	1 Set	M.V-S.C One Stay assembly	SDCS-01 Drw. 312
64	17M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01
65	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
66	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
67	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02 Fig. 35

DRW.189A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1B



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm <sup>2</sup> ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Cu. Bare Conductor		
24	21M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.189B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup> Al.	11-SDMS-02
39	2	Polyethylene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
53	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
59	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/240 (Optional)	SDCS-01 Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
63	1 Set	M.V-S.C One Stay assembly	SDCS-01 Drw. 312
64	17M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01
65	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
66	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
67	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02 Fig. 35

DRW.189B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V  
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

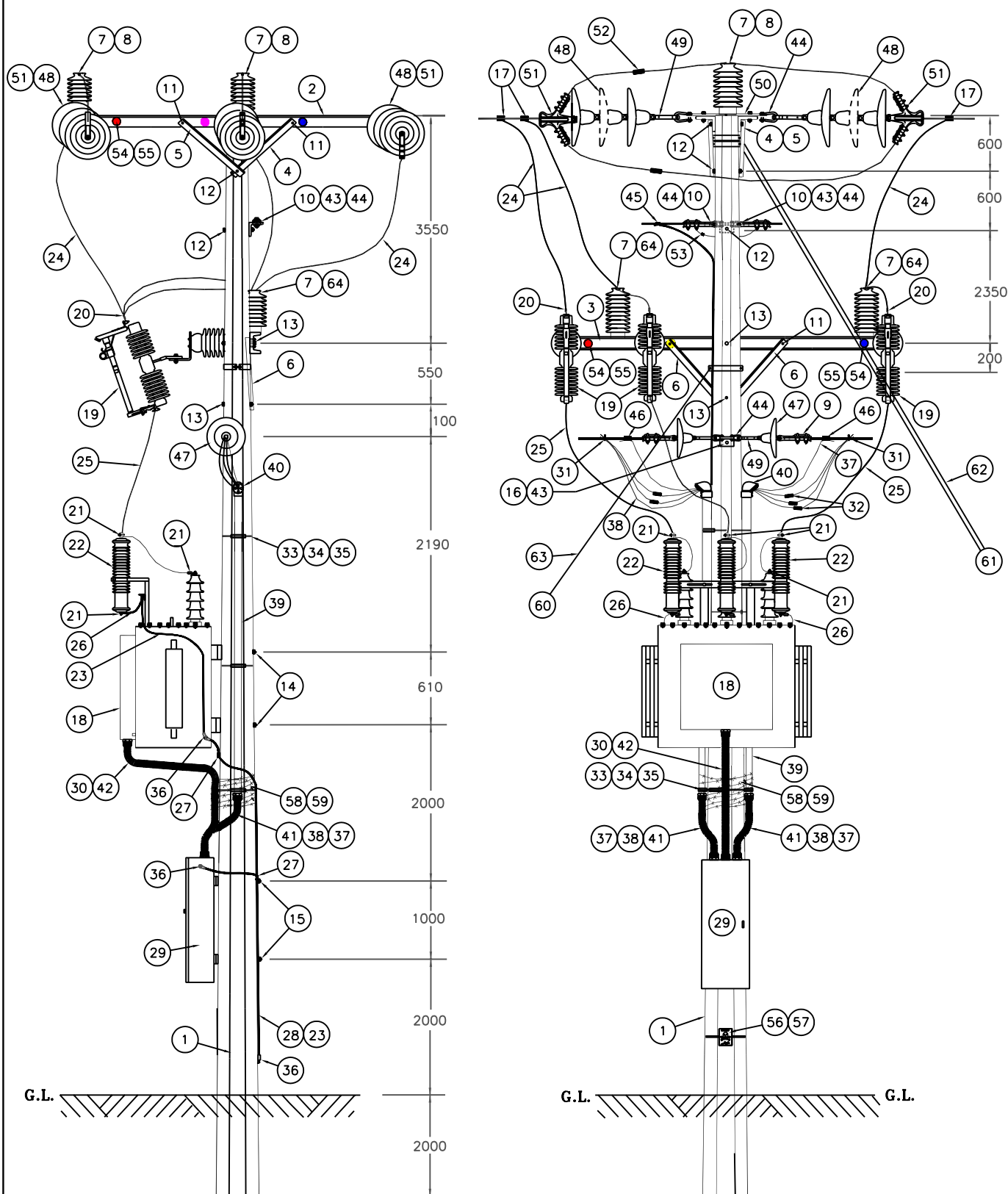
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SDCS-01

DATE: DECEMBER 2005G





## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Copper. Bare Conductor		
24	21M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.190A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup>	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	2	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	10	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	6	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove Compression Connector for 170mm <sup>2</sup> ACSR/AW (Merlin-Merlin)	20-SDMS-02 Fig. 39
53	1	Parallel Groove Compression Connector for 67.44mm <sup>2</sup> ACSR/AW (Quail-Quail)	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/240 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02 Fig. 35
65	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
66	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
67	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
68	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
69	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
70	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4

**DRW.190A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**





## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Copper. Bare Conductor		
24	21M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

**DRW.190B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup>	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	2	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	10	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	6	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove Compression Connector for 170mm <sup>2</sup> ACSR/AW (Merlin-Merlin)	20-SDMS-02 Fig. 39
53	1	Parallel Groove Compression Connector for 67.44mm <sup>2</sup> ACSR/AW (Quail-Quail)	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/240 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02 Fig. 35
65	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
66	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
67	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
68	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
69	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
70	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4

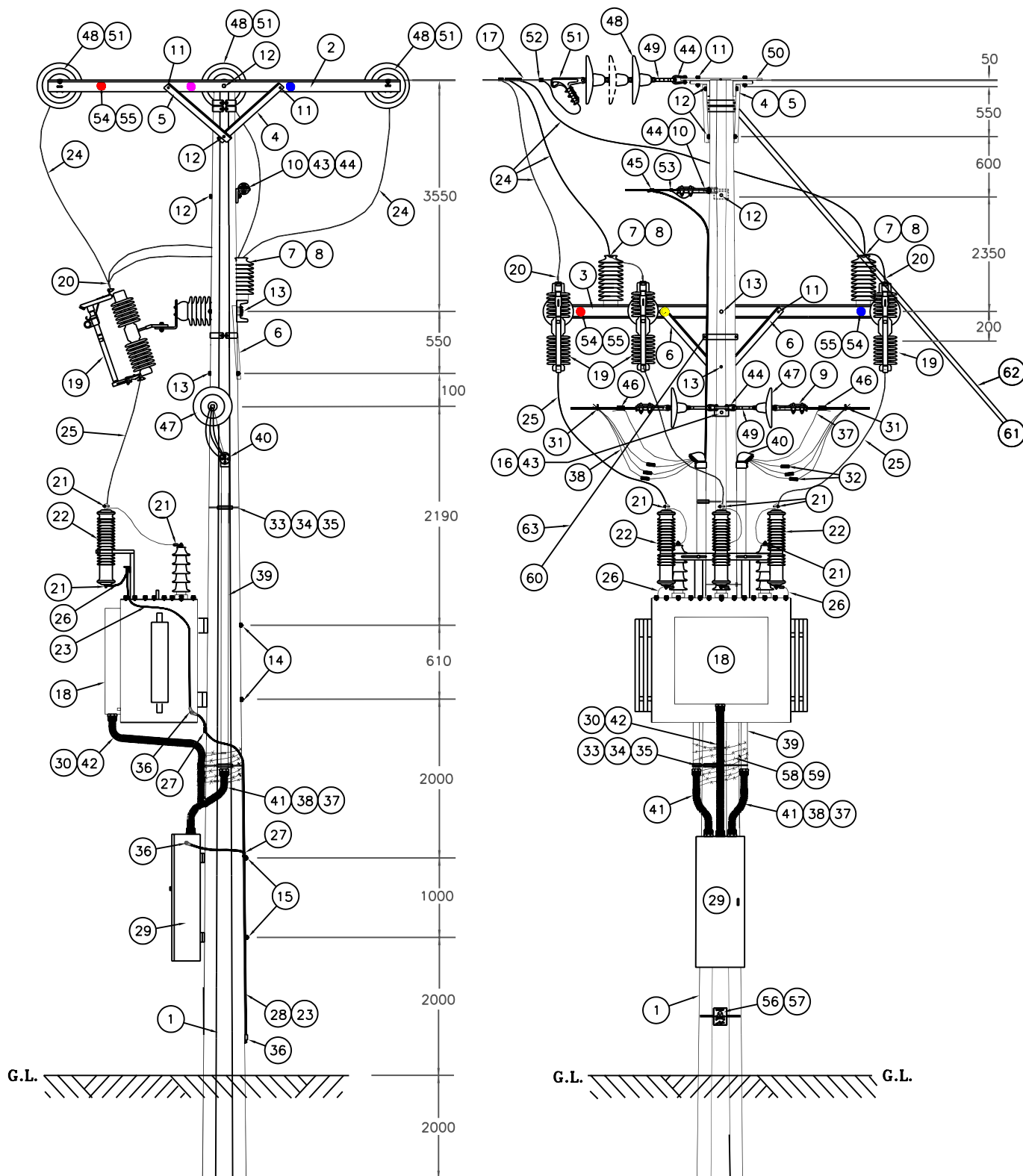
**DRW.190B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V  
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**



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DRW.191-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 14M M.V  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET

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SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Copper. Bare Conductor		
24	21M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.191A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup>	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	2	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	6	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	3 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	5	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	3	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm <sup>2</sup>	20-SDMS-02 Fig. 39
53	1	Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm <sup>2</sup>	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/240 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
68	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4

**DRW.191A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm <sup>2</sup> ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm <sup>2</sup> Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm <sup>2</sup> Copper. Bare Conductor		
24	21M	Quail Conductor, 67.44mm <sup>2</sup> ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm <sup>2</sup> Soft Drawn		
26	3	35mm <sup>2</sup> Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm <sup>2</sup>	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm <sup>2</sup> Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm <sup>2</sup> -120mm <sup>2</sup>	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.191B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V  
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



## SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm <sup>2</sup> Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm <sup>2</sup> Soft Drawn	
38	18M	Quadruplex Cable 120mm <sup>2</sup>	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm <sup>2</sup> Incoming Cable	20-SDMS-02
43	2	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	6	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-70mm <sup>2</sup> Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm <sup>2</sup> Cu.-120mm <sup>2</sup> Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	3 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	5	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	3	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm <sup>2</sup>	20-SDMS-02 Fig. 39
53	1	Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm <sup>2</sup>	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/240 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
68	8	Terminal Lugs for Cable 4X185mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm <sup>2</sup> Al.	12-SDMS-02 Fig. 4

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